



IASRI

NEWS



Volume 17

No. 1

April- June, 2012

- Research Achievements
- Human Resource Development
- Awards and Recognition
- Panorama of Activities
- Publications
- Lectures Delivered
- Participation
- Consultancy/Advisory Services
- Personnel



From Director's Desk . . .

This newsletter highlights some of the salient research and training achievements made and other significant activities performed during the period under report.

Indian NARS Statistical Computing portal for providing service oriented computing for the users of NARS has been Strengthened by adding modules for the analysis of data generated from Row-Column Designs; Nested Block Designs; Univariate Distribution Fitting; Tests of Significance; Correlation and Regression Analysis.

Web enabled classes of experimental designs in the presence of indirect effects of treatments have been developed.

Biological functions were obtained through Gene Ontology (GO) and mapped on to rice genome and full length gene sequences were designed.

Analysis of gene expression of halophilic bacteria suggested that genes involved in mobile extracellular function are highly expressed in this organism. The study could provide insight into the gene expression response of halophilic bacteria. The unique salt tolerant traits and genes responsible for salt stress could potentially be used in agricultural crops that are almost exclusively glycophytes. The findings of this study may facilitate developing biofertilizers for improving fertility of saline soils.

A web based software for Half Yearly Progress Monitoring (HYPM) of scientists in ICAR has been implemented from 1st April 2012 at all the Institutes/Bureaus /Directorates/NRCs of ICAR for online submission of data regarding the proposed targets for the half yearly period (01-04-2012 to 30-09-2012). One International training programme on Techniques of Estimation and Forecasting of Crop Production in India Sponsored by FAO was organised.

Two national training programmes which include one under NAIP on Dissemination cum Training Workshop on Technology Forecasting Methods with Application in Agriculture and the other on Data Analysis and interpretation: Use of Statistical Softwares Sponsored by Central Statistical Organisation Ministry of Statistics & Programme Implementation. 56 participants attended these training programmes. Five conferences/ symposia/ workshops were also organised.

Scientists of the Institute received various Awards and Recognition, few of them were Dr. Himadri Ghosh received Bose-Nandi Award (jointly with Dr. Ramakrishna Singh and Dr. Prajneshu), Dr. Ranjana Agrawal nominated as member of Governing body of Hindi Academy, Delhi Government, Delhi.

10 new projects were initiated. Scientists of the Institute published 17 research papers, 04 book chapters, one reference manual and one E-manual and participated in number of meetings/ conferences/ symposia/ workshops, etc.

It is hoped that the contents of this document would be informative and useful for scientists in NARS. Any suggestions for improving the contents of the newsletter further would be highly appreciated.

VK Bhatia
(VK Bhatia)

RESEARCH ACHIEVEMENTS

• **Indian Statistical Computing Portal**

Strengthened Indian NARS Statistical Computing portal for providing service oriented computing for the users of NARS. During this quarter the modules for the analysis of data generated from row-column designs; nested block designs; univariate distribution fitting; tests of significance; correlation and regression analysis have been added to the portal.

• **Designs in Presence of Indirect Effects**

For easy accessibility of the experimental designs in the presence of indirect effects of treatments, web-enabled following useful classes of designs have been generated:

- A class of incomplete block designs with $v = s$ treatments, $b = s(s-1)$ blocks, $r = (s-1)(s-i)$ replications and $k = (s-i)$ block size, ($i = 1, 2, \dots, s-4$) balanced for neighbour effects.
- Cross over designs balanced for carryover effects with following parameters:
 - v treatments, $p = 2$ periods, $n = v^2$ units
 - v treatments, $p = 2v - 1$ periods, $n = v$ units
- Two series of minimal balanced experimental designs in the presence of carryover effects with parameters $v = 2t+1$ (t odd and t even) treatments, $p = (v+1)/2$ periods and $n = 2v$ units.

• **Identification of Genes Responsible for Salinity Stress in Important Cereal Crops**

A total of 7746 expressed sequence tags (ESTs) expressed in salinity stress condition were mined from the different web resources and clustered, assembled into 672 contigs. Biological functions were obtained through gene ontology (GO) and mapped on to rice genome and full length gene sequences were designed. These designed candidate genes were further validated by means of integration with known salt stress related quantitative trait loci (QTL) on rice genome and promoter analysis. The study claims the possible involvement of the predicted genes in salt stress mechanism and may be useful in molecular breeding programme in rice salinity research.

• **Analysis of Gene Expression of Halophilic Bacteria under Different Salinity Stress Conditions**

Salinity adversely affects both quantity and quality of crop products causing considerable agronomic problems. Elucidation of the fundamental mechanisms of salt tolerance in halophilic bacteria is essential prerequisite for deriving the genetic bases for their salinity stress adaptation. This study aimed to identify the molecular signatures governing salt tolerance adaptation in *Salinibacter ruber* for inferring critical halophilicity features. Synonymous codon usage patterns in this organism have been analysed for better understanding of its genetic organization. Analysis of gene expression level suggested that genes involved in mobile extracellular function are highly expressed in this organism. The study could provide insight into the gene expression response of halophilic bacteria. The unique salt tolerant traits and genes responsible for salt stress could potentially be used in agricultural crops that are almost exclusively glycophytes. The findings of this study may facilitate developing biofertilizers for improving fertility of saline soils.

• **Half Yearly Progress Monitoring System**

A web based software for Half Yearly Progress Monitoring (HYPM) of scientists in ICAR (<http://hypm.iasri.res.in>) has been implemented from 1st April 2012 at all the Institutes/Bureaus /Directorates/NRCs of ICAR for online submission of data regarding the proposed targets for the half yearly period (01-04-2012 to 30-09-2012). It would be possible to monitor

online progress of the scientists, manpower status, research projects, prioritized activities and salient research achievements at institute/SMD/ICAR level when system becomes fully operational. The status of the online proposed targets submitted by the Scientists, Reporting and Reviewing officers at the end of this quarter is as follows:

No. of Institutes Registered	No. of Scientists Registered	No. of Scientists Submitted Target	No. of Reporting Officers Commented	No. of Reviewing Officer Reviewed
95	4340	3809	3626	333

HUMAN RESOURCE DEVELOPMENT

Strengthening Statistical Computing for NARS: A Silent revolution in capacity building and computing culture

Dr. S Ayyappan, Secretary DARE and Director General, ICAR inaugurated the Workshop of NAIP Consortium on *Strengthening Statistical Computing for NARS* on June 25, 2012 in presence of Dr. MM Pandey, DDG (Engg.), Dr. VK Gupta, ICAR National Professor, Dr. PS Pandey, National Co-ordinator, NAIP-I, Dr. VK Bhatia, Director, IASRI, New Delhi, Dr. Ramesh Chand, Director, National Centre for Agricultural Economics and Policy Research, Dr. KC Bansal, Director, National Bureau of Plant Genetic Resources, Dr. Ramesh Kumar, Project Director, Directorate of Floriculture Research, New Delhi, Dr. I Ngalinda, Eastern Africa Statistical Training Centre, Tanzania, all CCPIs, 22 Nodal Officers and many other dignitaries.

While speaking on this occasion Dr. S Ayyappan, Honourable Secretary DARE and Director General, ICAR appreciated the efforts made in capacity building on Statistical Techniques, Statistical Computing and interpretation of data and termed it as silent revolution in capacity building and statistical computing.

Dr. VK Bhatia, Director IASRI, New Delhi gave a brief background and genesis of the Consortium. Consortium Principal Investigator (CPI) in his presentation on aim, achievements and impact of the consortium said that NAIP Consortium on Strengthening Statistical Computing for NARS (www.iasri.res.in/sscnars) targets at providing research guidance in statistical computing and creating sound and healthy statistical computing environment and providing advanced, versatile, innovative and state-of-the-art high end statistical package for analysis of data so as to enable drawing meaningful and valid inferences and converting research output into knowledge. The high-end Statistical Computing Package procured for perpetual use with three years updates and upgrades is installed on more than 1875 computers across 151 NARS organizations and several of their regional centres, which is on an average more than **12** computers per NARS organization. For capacity building more than 1880 participants (209 trainers' through training programmes each of 30 working days and 1672 researchers in 80 training programmes each of one week duration) were trained on Statistical Techniques, Data Analysis and Interpretation.

CPI also apprised the participants about Indian NARS Statistical Computing Portal established for providing service oriented computing to NARS users through IP authentication at <http://stat.iasri.res.in/sscnarsportal>.

The capacity building efforts have paved the way for publishing research papers in the high impact factor journals. It has also helped researcher / scholars in analyzing their data sets for their dissertations and

course work. The statistical computing environment has helped in saving man months for compilation of data related to Marine Fish Household Census 2010 consisting of 10 lakh households with 16 attributes. The e-manuals developed have been cited by many researchers.

Dr. VK Gupta, ICAR National Professor said that June 08, 2010, when the project was launched, is a red letter day in the history of ICAR and IASRI and explained the power of statistics for drawing inferences for the benefit of mankind. He also emphasized the importance of

Statistics as a discipline in data collection, analysis and interpretation.

Dr. MM Pandey, DDG (Engg.) appreciated the efforts made by the team and said that the achievements made are phenomenal. The efforts made in the spread of the software across the length and breadth of the country have been tremendous and have borne fruits. He stressed the need of sustained training and continued hand holding of all individual scientists on continuous basis. He also said that the demand of high end servers is justified seeing the requirements of NARS. Dr. Ramesh Chand, Dr KC Bansal and Dr Ramesh Kumar said that , this initiative is very useful and has started giving its benefits.

A bulletin on Indian NARS Statistical Computing Portal was also released on the occasion by Dr S Ayyappan. Dr. Ayyappan said that the difference that has been made in terms of capacity building, its effects should be felt across the institutes on more round of feedback may be held from the users. He also desired that the project should be extended up to March, 2014 for harnessing the benefits of Statistical Computing Environment created and strengthening the Indian NARS Statistical Computing Portal in the specific areas. He also asked that IASRI should take this as a regular activity in network mode in the XII Plan. He also said that IASRI and NCAP jointly should move a proposal of renaming the R-Block Crossing as 'Ganak Karanti Chowk'. He expressed satisfaction over the achievement made and lauded the efforts of the team. Dr. Ayyappan very strongly expressed his pleasure over the fact that this is the only project where no excuses for delay have been made and as a matter of fact the achievements are more than targeted.



Training Programmes Organised

Details of Training Programmes Organised					
S.No.	Title	Venue	Date	Sponsored by	No. of Participants
International (1: 07 Participants)					
1.	Techniques of Estimation and Forecasting of Crop Production in India Course Director: UC Sud Course Co-Director: Hukum Chandra	IASRI, New Delhi	23 May to 02 June 2012	Food & Agriculture Organisation (FAO)	07 (Ethiopian Central)
National Agricultural Innovation Project (1: 11 Participants)					
2.	Dissemination cum Training Workshop on Technology Forecasting Methods with Application in Agriculture	IASRI, New Delhi	06-15 June 2012	V-Page sub program II: Technology Forecasting & Policy Analysis	11
Resource Generation (1: 38 Participants)					
3.	Data Analysis and Interpretation: Use of Statistical Softwares. Course Director: Rajender Parsad Course Co-Directors: Krishan Lal and Susheel Kumar Sarkar	IASRI, New Delhi	14 May to 01 June 2012	Central Statistical Organisation Ministry of Statistics & Programme Implementation	38

Conferences/ Symposia/ Workshops Organised

Details of Conferences/ Symposia/ Workshops Organised			
S. No.	Title	Venue	Date
1.	Requirement Analysis Workshop for ICAR ERP under the NAIP Project Implementation of Management Information System (MIS) including Financial Management System (FMS) in ICAR	IASRI, New Delhi	30 April to 05 May 2012
2.	Third Workshop-cum-Installation Training Programme for Nodal Officers of NAIP Consortium on Strengthening Statistical Computing for NARS	IASRI, New Delhi	26 June 2012
3.	Workshop on Evaluation of Agriculture Census Scheme (EACS) and Training for Input Survey 2011-12 funded by Agriculture Census Division (ACD), DAC, Ministry of Agriculture, Govt. of India, New Delhi	IASRI, New Delhi	28-29 June 2012

AWARDS AND RECOGNITION

- Dr. Himadri Ghosh received Bose-Nandi Award (jointly with Dr. Ramakrishna Singh and Dr. Prajneshu) for the best publication in the section "Applications of Statistics" of the Calcutta Statistical Association Bulletin for the year 2008.
- Dr. Ranjana Agrawal nominated as member of Governing body of Hindi Academy, Delhi Government, Delhi.
- Dr. Anil Kumar nominated as a Member i) Editorial Board, International Journal of Agricultural and Statistical Sciences and ii) Society for Community Mobilization for Sustainable Development.

VISIT ABROAD

- Dr. UC Sud was deputed to attend Regional Workshop on Sampling for Agricultural Censuses and Surveys during 13-18 May 2012 in Bangkok, Thailand.
- Dr. AK Paul completed three months NAIP HRD training in the area of Crop Bioinformatics (Comparative genomics in soybean's pathogens) in Agronomy Division of Iowa State University, USA during 08 March to 07 June 2012.
- Dr. VK Bhatia and Dr. Anil Rai visited EBI, London and SIB Switzerland during 17-23 June 2012 for studying the infrastructural facilities, exploring the possibility of collaboration and capacity building as a member of the team of five scientists constituted by ICAR.

PANORAMA OF ACTIVITIES

QRT Meetings

- A Meeting of QRT was held on 12 April 2012 with the Division of Sample Survey. The meeting was presided over by Dr. Padam Singh, Chairman, QRT and Dr. SK Das, DG, CSO, Member QRT. All the Scientists of the Division of Sample Surveys participated in the meeting.

Seminars Association

General Body Meeting of the Seminar Association was held on June 12, 2012 under the Chairmanship of Director, IASRI. The new Executive Committee was constituted for the period 2012-2014.

Seminars Delivered

Seminars in different areas of Agricultural Statistics and Computer Application were delivered. These seminars include presentation of salient findings of the completed research projects by the scientists, Thesis/ORW/Course seminars of students of M.Sc. and Ph.D. (Agricultural Statistics) and M.Sc. (Computer Application) and Guest seminars.

One Guest seminar during the period was delivered by Dr. Asha Seth Kapadia, Professor of Biostatistics, Management and Policy Sciences, University of Texas, School of Public Health, Houston, USA on Current Issues in Public Health.

NEW PROJECTS / SCHEMES / PROGRAMMES

The following new projects were initiated w.e.f 01 April 2012:

- Planning, designing and analysis of data relating to experiments conducted under AICRP on long-term fertilizer experiments. SIX1206
- Planning, designing and analysis of on farm research experiments planned under Project Directorate of Farming Systems Research. SIX1207
- Information System for Designed Experiments. SIX1208
- Planning, designing and analysis of experiments planned on stations under the Project Directorate of Farming Systems Research. SIX1209
- Algorithm for gene clarification based on gene expression data. SIX1210
- A study on calibration estimators of finite population total for two stage sampling design. SIX1211
- Study on robustness of the sequential testing procedures for some distributions in agricultural pest control. SIX1212
- Half Yearly Progress Monitoring System of the Scientists in ICAR (HYPM). SIX1216
- National Information System on Agricultural Education Network in India (NISAGENET-IV). SIX1217
- Management System for Post Graduate Education-II. SIX1218

Seminar Association

Name	Post
Dr. KK Tyagi	President
Dr. AK Gupta	Secretary
Sh. Pal Singh	Joint Secretary
Dr. Sarika	Member
Dr. Sushil Kumar	Member
Dr. Mir Asif Iquebal	Member
Dr. NO Singh	Member
Sh. Mohan Kumar	Students' Representative
Sh. Sree Kumar Biswas	Students' Representative

The Details of Seminars Delivered

Category	Type of seminar	Number
Student	Course	02
	ORW	02
	Thesis	12
Guest		01
Total		17

TECHNOLOGIES SUBMITTED FOR COPYRIGHT

Applications were submitted to the Registrar, Copyrights, New Delhi for registration of copyright for the Monograph on α -designs written by Rajender Parsad, VK Gupta, PK Batra, SK Satpati and Pabitra Biswas vide letter No. 6256/2012-CO/L dated 18 May 2012.

PUBLICATIONS

Research Papers

1. Abedinpour, M, Sarangi, A, Rajput, TBS, Singh, M, Pathak, H and Ahmad, T (2012). Performance evaluation of aqua crop model for maize crop in a semi-arid environment. *Agril. Water Manage.*, **110**, 55-66.
2. Ashraf, Jawaid, Jaggi, Seema and Varghese, Cini (2011). Block designs for two non-interacting sets of treatments. *J. Statist. Appl.*, **6(1-2)**, 59-68.
3. Bharadwaj, SP. Significance of market information system (MIS) in agricultural development. *Ind. J. Agril. Marketing*, **25(3)**, 83-95.
4. Chandra, H, Salvati, N, Chambers, RL and Tzavidis, N (2012). Small area estimation under spatial nonstationarity. *Computational Statistics and Data Analysis*. **56**, 2875-2888.
5. Chandra, H., Chambers, R. and Salvati, N. (2012). Small area estimation of proportions in business surveys. *J. Statist. Computation and Simulation*, **82 (6)**, 783-795.
6. Dhananjaya, P, Singh, Ratna Prabha, Rai, Anil and Arora, Dilip K. (2012). Bioinformatics-assisted microbiological research: tasks, developments and upcoming challenges. *Amer. J. Bioinfo.*, **1(1)**, 10-19.
7. Iquebal, MA, Ghosh, Himadri and Prajneshu (2012). Genetic algorithm optimization technique for linear regression models with heteroscedastic errors. *Ind. J. Agril. Sci.*, **82(5)**, 422-425.
8. Jain, A, Gour, DS, Bisen, PS, Dubey, PP, Sharma, DK, Tiwari RP, Gupta N and Kumar, D (2012). Allele mining in α -lactoglobulin gene of *Capra hircus*. *J. Biotec.*, **11:50**, 11057-11064.
9. Johnson, FA, Padmadas, SS, Chandra, H, Matthews, Z and Madise, NJ (2012). Estimating unmet need for contraception by district within Ghana: An application of small-area estimation techniques. *Population Studies. J. Demography*, **66 (2)**, 105-122.
10. Manuja, Anju, Manuja, Balvinder K, Dhingra, M and Sarkar, SK (2012). Differential expression of toll-like receptor 9 by various immune compartments of buffalo (*Bubalus bubalis*). *Ind. J. Anim. Sci.*, **82 (4)**, 427-429.
11. Pramanik, Achintya, Dey, Debjani and Kumar, Amarender (2012). Redescription of *diaeretiella rapae* (McIntosh) (*Hymenoptera: Braconidae: Aphidiinae*) with emphasis on morphometrics. *J. Entom. Res.*, **36 (1)**, 77-82.
12. Raman, RK, Wahi, SD and Paul, AK (2012). Linear discriminant function under multivariate non-normal rice (*Oryza sativa*) and maize (*Zea mays*) data. *Ind. J. Agril. Sci.*, **82(5)**, 436-439.
13. Sandhu, SK, Oberoi, HS, Dhaliwal, SS, Babbar, N, Kaur, U, Nanda, DK and Kumar, D (2012). Ethanol production from Kinnow mandarin (*Citrus reticulata*) peels via simultaneous saccharification and fermentation using crude enzyme produced by *Aspergillus oryzae* and the thermotolerant *Pichia kudriavzevii* strain. *Annals of Microbiology*, **62(2)**, 656-666.
14. Sarika, Iquebal, MA and Rai, Anil (2012). In silico analysis and homology model of legume antioxidant proteins. *Online J. Bioinfo.*, **13(1)**, 120-129.
15. Sharma, RK, Singh, JK, Khanna, S, Phulia, SK, Sarkar, SK and Singh, Inderjeet (2012). Fetal age determination in Murrah buffaloes from days 22 through 60 with ultrasonography. *Ind. J. Anim. Sci.*, **82 (4)**, 374-376.

16. Singh, N, Sahu, TK, Rao, AR and Mohapatra, T (2012). shRNAPred (Version 1.0): An open source and standalone software for short hairpin RNA (shRNA) prediction. *Bioinformatics*, **8(13)**, 629-633.
17. Singh, Surendra, Paul, AK, Singh, KN and Kumar, Ashok (2012). Study of Growth Patten of Cattle Under Different Climatic Conditions. *IUP J. Genet. & Evol.*, **5(1)**, 41-46.

Book

- Compendium Book *Phenomic and Genomic Tools for analysis of livestock genomes*. Published by NBAGR, Karnal, 2012. Editors: Dixit, SP, Jayakumar, S and Kumar, D.

Reference Manual

- Khanduri , OP and Sharma, NK (2012). Web enabled information system for On Farm research experiments. IASRI, New Delhi.

E-Manual

- Forecasting Techniques in Agriculture.(2012, Eds. KN Singh, Amrender Kumar and Hukum Chandra). Available at <http://www.iasri.res.in/ebook/FET/index.htm>.

Book Chapters

1. Agrawal, Ranjana (2012). Weather based forecasting of crop yields, pests and diseases - IASRI models' in 'Statistics in Social Science and Agricultural Research, (Eds. Debasis Bhattachrya and Soma Roychodhury).
2. Bhardwaj, SP (2012). Price volatility in agricultural commodities. *Financial Derivatives, NABARD*, 375-390,
3. Bhardwaj, SP and Vasisht, AK (2012). Market efficiency in commodity futures- A case study of mentha oil. *Financial Derivatives, NABARD*, 282-295,
4. Gupta, VK, Parsad, Rajender and Lal, Krishan (2011). Design and analysis of animal nutrition experiments. Animal nutrition: Advancements in feeds and feeding of livestock, (Eds. Lokesh Gupta and KK Singhal). Agrobios(India), Jodhpur.

INVITED LECTURES DELIVERED

- Training Course on Data Processing and Analysis organized by Council for Social Development, New Delhi during 21-26 May 2012.
 - Dr. Seema Jaggi: (i) SPSS: An Overview, (ii) Frequency Distribution and Descriptive Statistics using SPSS, (iii) Correlation and Regression and (iv) Testing of Hypothesis and ANOVA (Four lectures).
 - Dr Cini Varghese: (i) Frequency Distribution and Graphical Presentation, (ii) Descriptive Statistics and (iii) Practical on Correlation and Regression using SPSS and Practical on Testing of Hypotheses and ANOVA using SPSS (Three lectures).
 - Dr. Eldho Varghese: (i) Non-parametric tests, (ii) Practical on non-parametric tests using SPSS and (iii) Logistic regression and Practical on logistic regression using SPSS (Four lectures).
 - Dr. A.R.Rao: (i) PCA, (ii) Factor analysis and (iii) Practicals on PCA & FA (Three lectures).
- National Workshop on Geospatial Technologies and Applications held during 30-31 May 2012 at Manav Rachna International University, Faridabad.
 - Dr Prachi Misra Sahoo: Geostatistics and its Applications.
- Training programme on Geospatial Technology for the university and college faculty held during 22 May - 11 June 2012, at the Department of Geography, Jamia Millia Islamia, New Delhi sponsored by NRDMS of DST.
 - Dr Prachi Misra Sahoo: Spatial data modeling and its applications.

- Summer School on National Training Programme on Phenomic and Genomic Tools for Analysis of Livestock Genomes held at NBAGR, Karnal on 14 June 2012.
 - Dr. Dinesh Kumar. DNA signature of germplasm by computational approach.

PAPERS PRESENTED

- 42nd Annual Sorghum Group Meeting held at GB Pant University of Agriculture and Technology, Pantnagar during 28-30 April 2012
 - Rajender Parsad. Statistical issues in designing of experiments and analysis of experimental data for multi environment trials (invited talk).
- Global Conference on Horticulture for Food Nutrition and Livelihood Options held at Bhubaneswar, Orissa during 28-31 May 2012.
 - Salvi, MB, Agrawal, Ranjana*, Salvi, BR, Mishra, AK, Pandey, G and Chandra, Rakesh -Forewarning powdery mildew of mango (*Mangifera indica* L.) caused by *Oidium mangiferae* Berthet.

PARTICIPATION

Conferences / Workshops / Seminars / Symposia etc

1. One day Symposium on Agricultural Biotechnology Regulation, Trade, and Co-existence 2012 - BIGMAP which was held at Gateway Hotel and Conference Centre, Ames, IA, USA on April 14, 2012. (Dr. AK Paul)
2. 5th World Information Technology Forum (WITFOR) 2012 i.e. the International Federation for Information Processing (IFIP) flagship conference on ICT for Sustainable Human Development organized in partnership with the Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Govt. of India at Vigyan Bhawan, New Delhi during 16-18 April 2012. (Dr. Tauqueer Ahmad, Dr. Prachi Misra Sahoo, Dr. Cini Varghese, Dr. K.N.Singh, Dr. Alka Arora, Ms. Shashi Dahiya, Ms. Anshu Bharadwaj, Mr. Pal Singh, Mr. SN Islam, Mr. Soumen Pal, Dr. AR Rao, Sh. SB Lal, Smt. Anu Sharma, Dr. Sanjeev Kumar, Dr. DC Mishra and Sh. Samir Farooqi)
3. A four days training programme Practical Approach to Networking at IIT, Kanpur during 12-15 April 2012. (Sh. SN Islam)
4. International Conference on New Statistical Methods for Next Generation Sequencing Data Analysis on 11 May 2012 at Iowa State University, Howe Hall, Alliant Energy Lee Liu Auditorium. (Dr. AK Paul)
5. National Conference on Cooperatives' at NASC, New Delhi on 15 May 2012. (Dr. Susheela Kaul)
6. Policy Dialogue on Building Climate Resilient Agriculture in India, organized jointly by the International Crop Research Institute for Semi-Arid Tropics (ICRISAT) and the Indian Council of Agricultural Research (ICAR) on 22 May 2012 in National Agricultural Science Centre (NASC), Pusa, New Delhi. (Dr. DR Singh)
7. Workshop on IPv6 Essentials, Implementation and Security organized at CERT-In, Electronics Niketan, CGO Complex, New Delhi on 11 June 2012. (Md. Samir Farroqui and Smt. Anu Sharma).
8. All India Training of Trainers on data collection for 19th Livestock Census, 2012 organized by Animal Husbandry Statistics Division of Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture, GOI at IASRI, New Delhi on 12 June 2012 (Dr. UC Sud, Dr. KK Tyagi, Dr. AK Gupta and Sh. VK Jain)

Meetings

- Meeting with Expert Group on Evaluation of Agricultural Census Scheme (EACS) at Indian Agricultural Research Institute, New Delhi on 02 April 2012.
- Executive Council Meeting for Society of Statistics and Computer Applications on 13 April 2012 at IASRI, New Delhi.
- NSS 70th Round First Working Group (WG) meeting on 18 April 2012 at CSO, New Delhi.
- Executive Council Meeting of the Indian Society of Agricultural Statistics held at NASC Complex, New Delhi on 25 April 2012.
- Meeting with Secretary DARE and DG (ICAR), Secretary, Ministry of Food Processing, DDG (Agricultural Engg.) and other officials related to estimation methodology of harvest and post harvest losses on 24 April 2012 at ICAR New Delhi.
- Meeting of local project advisory committee meeting of the project Knowledge Creation & Innovation in Emerging Technology- Contemporary and Future Scenario in Nanotechnology on 26 April 2012 in DST New Delhi.
- Meeting of Implementation Support Mission of World Bank on 07 June 2012 in NAIP, New Delhi.
- Meeting of the Executive Council of Farming Systems Research and Development Association on 08 June 2012 at PDFSR, Modipuram.
- Meeting of a Technical Group on 19th Livestock Census-2012 organized by the Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, GOI at DMS Complex, Shadipur Depot, West Patel Nagar, New Delhi on 26 June 2012.

DISTINGUISHED VISITOR

- Prof. I Ngalinda, Eastern Africa Statistical Training Centre (EASTC), Tanzania visited IASRI on 27 June 2012, to explore the possibility and modalities of collaboration of IASRI with EASTC in research, teaching & training.

CONSULTANCY /ADVISORY SERVICES PROVIDED

- Ms. Sini Thomas, a student from the Division of Plant Physiology, IARI on the use of three factor ANOVA for comparing the effect of magnetopriming on growth and yield of chickpea under salinity
- Dr.Swaran Lata, Associate Professor, Department of Crop Improvement, CSKHPKV, Palampur on estimating genotypic and phenotypic variance-covariance matrix, genotypic and phenotypic correlations, estimates of heritability and co-heritability and path analysis from the data on 13 characters generated from designed experiment on 40 cultivars conducted using an alpha design in 3 replications and 5 blocks of size 8 per replication.
- Kiran Kumar, M.Sc. student (Microbiology) on the use of dice coefficient for assessing the similarity among different soils based on the presence or absence of fatty acids.

COMPUTING FACILITIES

Wide Area Network

Internet services have been provided to the users and the website of IASRI is being updated regularly. This site has been visited 69709 times since 01 April 2012 and 1112030 times since 05 September 2003.

PERSONNEL

Congratulations on your Promotion

Under MACP Scheme after completing 30 years of service Sh. Rajender Kumar, Assistant and Sh. Anil Kumar Bhalla, Assistant were awarded Financial Upgradation.

Wish you happy Retired Life

Name	Designation	Date
Smt. Sushma Rani Banati	PS	31.05.2012
Smt. Shakuntla Arora	PS	30.06.2012
Sh. Mangal Singh	Assistant	30.06.2012

Transfer

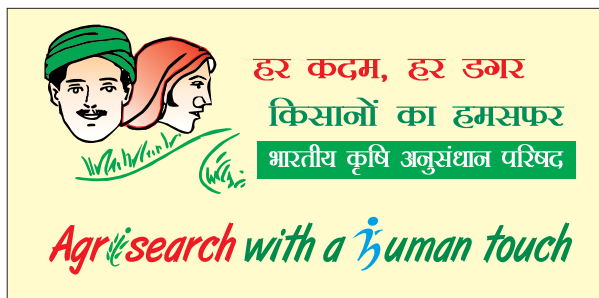
Name	From	Effective Date
Sh. KPS Gautam, SAO	CPCRI, Kasargod	12.04.2012
Dr. Dinesh Kumar, Sr. Scientist	NBAGR, Karnal	19.05.2012

Post Doctoral Fellowship

Vide Letter D.O. No. SR/S2/RJN-22/2011 dated 10.02.2012 of Science & Technology Department, Mehrauli Road, New Delhi, Ministry of Science & Technology, Govt. of India and with the approval of Director, IASRI, Dr. MNV Prasad Gajala joined IASRI, New Delhi on 01 June 2012 as Post Doctoral Fellowship under Dr. Ramanujan Fellowship.

Saleable Technologies

- Statistical Package for Factorial Experiments (SPFE 1.0)
- Statistical Package for Agricultural Research (SPAR 2.0)
- Statistical Package for Augmented Designs (SPAD)
- Statistical Package for Block Designs (SPBD 1.0)
- Statistical Package for Animal Breeding (SPAB 2.0)
- Software for Survey Data Analysis (SSDA 1.0)



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