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## Papers Presented and Participation of the Institute at the Conferences/Workshops, Etc.

### RESEARCH PAPERS PRESENTED

#### Group Meeting of STCR (AICRP) at IISS, Bhopal during 06-07 June 2008

- Lahiri, Alope. Design and analysis of STCR experiments and layout of the new experiment (Special Invited talk).

#### Workshop on “Improvement of Agricultural Statistics” organised by Directorate of Economics and Statistics, Ministry of Agriculture, GOI, New Delhi organised at Vigyan Bhawan, New Delhi during 08-09 July 2008

- Ahmad, T, Bathla, HVL, Rai, Anil and Sharma, SD. Study to investigate the causes of variation between official and trade estimates of cotton production.
- Ahmad, T, Bathla, HVL, Rai, Anil and Sharma, SD. Pilot study to develop an alternative methodology for estimation of area and production of horticultural crops.

#### Workshop at CRRRI, Cuttack during 28-29 July 2008

- Rai, Anil, Chaturvedi, KK, Malhotra, PK and Sharma, SD. Implication of ICT in agricultural research and development.

#### Regional Workshop on Farm Mechanization for Small Holder Agriculture in SAARC Countries organized by CIAE, Bhopal during 22-24 September 2008

- Tyagi, KK. Long term mechanization strategy for different agro climatic zone project.

#### 1<sup>st</sup> Annual Conference of Indian Society of Agri Business Management organised at UAS, Bangalore during 25-27 September 2008

- Bhardwaj, SP. Contract farming

#### National Seminar on NSS 62<sup>nd</sup> Round Survey Results organized by NSSO, MOS & PI at SCOPE Complex, Lodhi Road, New Delhi during 25-26 September 2008

- Sud, UC, Bathla, HVL, Chandra, H and Singh, J.

Small area estimation – Some application to National Sample Survey data.

**International Conference on e-Content & Sustainability and ICT Mela at NCUI, New Delhi during 16-18 October 2008**

- Islam, SN, Chaturvedi, KK, Agarwal, Hari Om, Farooqi, MS, Sabir, Naved, Sharma, Kirti, Sharma, AK, Singh, Randhir, Sharma, RK and Sikarwar, HS. Expert system on wheat crop management.

**Sixth International Conference on Rough Sets and Current Trends in Computing (RSCTC 2008) during 23-25 October 2008 held at Akron, Ohio, USA**

- Arora, Alka, Upadhyaya, Shuchita and Jain, Rajni. Learning patterns from clusters using reduct.

**16<sup>th</sup> Annual Conference of AERA organised at Amity University, Lucknow during 21-23 November 2008**

- Bhardwaj, SP, Kaul, Sushila and Vasisht, AK. Supply side constraints to pulse production in India: A review.
- Kumar, Ashok and Singh, DR. Study of supply side constraints in tur (arhar).
- Singh, DR, Kaul, Sushila, Arya, Prawin and Kumar, Naresh. Impact assessment of technological interventions and supply side constraints in migratory sheep production system: A study in Ajmer district of Rajasthan.

**National Seminar on IT in Agriculture and Rural Development organized at BAU, Ranchi during 21-22 November 2008**

- Islam, SN. Expert system for a new revolution in agriculture.

**62<sup>nd</sup> Annual Conference of Indian Society of Agricultural Statistics held at SV Agricultural College, Acharya NG Ranga Agricultural University, Tirupati (AP) during 24-26 November 2008**

- Agrawal, Ranjana and Goyal, Gaurav. Use of two-phase sampling for crop yield forecasting.
- Behera, Subrat Keshori, Paul, Amrit Kumar, Wahi, SD and Singh, Pal. Estimation of heritability of mastitis disease using ANOVA method.
- Bhardwaj, SP. Methodological issues in agricultural marketing research
- Chandra, H, Bathla, HVL and Sud, UC. Estimation of small area quantities with zero-inflated data.

- Goyal, RC. A decentralized process for web based data management of agricultural education. (Invited talk)
- Paul, Amrit Kumar, Alam, Wasi, Singh, Pal. Average linkage method for clustering rice producing states of India.
- Prajneshu and Ghosh, H. GARCH and EGARCH nonlinear time-series modelling and forecasting of volatile data.
- Rai, Anil, Chaturvedi, KK, Malhotra, PK and Sharma, SD. ICT for accelerated growth and development of Indian agriculture – Status and prospects. (Invited talk)
- Ramasubramanian, V, Chandrahas and Dhandapani. A Time series modeling for forecasting seasonal paddy yield of Tamil Nadu.
- Sarkar, Susheel Kumar, Lal, Krishan, Parsad, Rajender and Gupta, VK. Computer aided generation of linear trend-free designs for factorial experiments.
- Sarkar, Susheel Kumar, Lal, Krishan. Computer aided generation of linear trend-free response surface designs.
- Sharma, Anu, Lal, SB and Mahajan, VK. SSDA – A C# library for analysis of survey data.
- Singh, DR and Vasisht, AK. Frontier production function for estimation of technical efficiency of aquaculture: A study of Punjab state of India.
- Singh, Jagbir, Tyagi, KK, Kher, KK, Gupta, AK and Jain, VK. Estimators for farming practices, resources and activities.
- Singh, Pal, Paul, Amrit Kumar and Wadhwa, Savita. A comparative study for growth pattern of ginger yield in India.

**5<sup>th</sup> Asia-Pacific Co-operative Research Conference organized by International Cooperatives Alliance, Hanoi, Vietnam on 02 December 2008**

- Kaul, Sushila. An analytical study of cooperative advantage from membership perspective in agricultural credit cooperatives of India.

**Pre-ICM International Convention of Mathematical Sciences (ICMS 2008) organized at Department of Mathematics, University of Delhi during 18-20 December 2008**

- Chandra, H. Estimation of population proportion for small domains.

- Mandal, BN, Parsad, Rajender and Gupta, VK. A family of distance balanced sampling plans. (Invited Talk)
- Mandal, BN, Parsad, Rajender and Gupta, VK. Balanced sampling plans excluding adjacent units: Polygonal designs. (Invited Talk)

**Workshop on Implementing a Holistic and Output-oriented Biotechnology in India held at National Academy of Agricultural Sciences, National Agricultural Science Complex, New Delhi on 23 December 2008**

- Prasanna, BM, Gupta, PK and Parsad, Rajender. Marker-based trait analyses & statistical genomics. (Invited Talk)

**International Symposium on Optimization and Statistics- 2008 held at AMU, Aligarh during 29-31 December 2008**

- Gupta, AK, Bathla, HVL, Sud, UC and Tyagi, KK. Methodology for estimation of production of flowers on the basis of market arrivals.

**Poster presentations in the 96<sup>th</sup> Indian Science Congress held at NEHU, Shillong during 03-07 January 2009**

- Agrawal, Ranjana and Mehta, SC. Crop yield forecast models based on weather and agricultural inputs.
- Ghosh, Himadri and Prajneshu. GARCH Non-linear time-series modeling and forecasting for volatile meteorological sub-division rainfall data.

**Conference on Innovative Change: Library and Information Services for the Present and Future held at Guntur organised during 10-11 January 2009 by Andhra Pradesh Library Association**

- Visakhi, P. World Bank boosts the NARS libraries.

**15<sup>th</sup> Meeting of the Regional Technical Coordination Committee of Rice Wheat Consortium for the Indo-Gangetic Plains at New Delhi during 02-03 February 2009**

- Parsad, Rajender, Crossa, Jose, Gupta, VK, Gupta, Raj K and Ladha, JK. Statistical methods and concepts for analysis of farmer's field data. (Invited Talk)

**Poster presentations in the 4<sup>th</sup> World Congress on Conservation Agriculture organized during 04-07 February 2009**

- Jaggi, Seema, Varghese, Cini, Gill, AS, Sharma, VK and Singh, NP. Impact assessment of agroforestry system on yield of associated barley and gram.
- Kaul, Sushila and Singh, DR. Reducing vulnerability of migratory sheep herders through technological interventions: A case study of North-West Indian states.
- Kumar, Anil, Batra, PK, Gill, MS, Singh, Gyan and Kumar, Sanat. Modeling yield prediction under long-term fertility experiments in rice-wheat rotation of Indo-Gangetic plains.
- Sahoo, PM, Rai, Anil and Ahmad, T. Influence of various parameters on livelihood security of rural India.
- Varghese, Cini, Jaggi, Seema, Gill, AS, Sharma, VK and Singh, NP. Modeling the crop yield under agroforestry system.

**11<sup>th</sup> Annual Conference of Society of Statistics, Computer and Application held at University of Madras, Chennai during 23-26 February 2009**

- Gupta, VK, Singh, Poonam, Kole, Basudev, Parsad, Rajender and Bhar, LM. Computer aided construction of efficient multi-level supersaturated designs.
- Gurung, Bishal, Bhar, LM and Gupta, VK. Construction of supersaturated designs.
- Lahiri, Alope. On optimal fertilizer doses for experiments of AICRP on soil test crop response correlations.
- Mandal, BN, Parsad, Rajender and Gupta, VK. Balanced sampling plans excluding adjacent units. (Invited Talk)
- Ramasubramanian V, Rai, Anil, Kumar, Amrender and Premi, Sarvesh Kumar. Technology forecasting of agricultural scenario - A case study in genetics and plant breeding.

**22<sup>nd</sup> National Conference on Agricultural Marketing organised at PAU, Ludhiana during 25-27 February 2009**

- Bhardwaj, SP and Vasisht, AK. Price volatility and integration in spot and futures market of gram.

- Sivaramane N, Singh, DR and Arya, Prawin. An econometric analysis of household demand for major vegetables in India.
- Vasisht, AK, Bathla, Seema, Arya, Prawin, Singh, DR and Bhardwaj, SP. Market integration for horticultural crops: A co-integration and error correction analysis.

**National conference on “Floriculture for livelihood and profitability” organized by Indian Society of Ornamental Horticulture during 16-19 March 2009 at IARI, New Delhi**

- Gupta, AK. Production of flowers in Delhi based on market arrival and village survey approaches

**PARTICIPATION**

- Training workshop on “Technology foresight methodologies in agricultural innovation system” from the Centre for Studies in Science Policy organised at JNU, New Delhi during 31 March - 10 April 2008.
- “Global agro-industry forum” organized jointly by Ministry of Agriculture, Government of India; Food and Agriculture Organisation, United Industrial Development Organisation (UNIDO) and International Fund for Agricultural Development (IFAD) at Vigyan Bhawan, New Delhi during 09-10 April 2008.
- “2011 census – First data user Conference” organised at Vigyan Bhawan, New Delhi during 24-25 April 2008.
- National Symposium on “Quality protein maize for human nutritional security and development of poultry sector in India” organised at NASC Auditorium, New Delhi on 03 May 2008.
- National Seminar on “Improvement of bovine fertility through use of reproductive biotechnology at farmers’ door” organized by Department of Animal Reproduction, Gynaecology & Obstetrics, College of Veterinary & Animal Sciences, GBPUAT, Pantnagar during 05-06 May 2008.
- ITTO sponsored workshop on “Forestry products statistics in India” organised by the Ministry of Environment and Forest at New Delhi during 13-16 May 2008.
- National Workshop on “Spices statistics” organised at Calicut during 22-23 May 2008.
- Workshop on BSMA organized at NASC by the Education Division of ICAR, New Delhi on 29 May and during 23-24 June 2008.
- Release of final results of the “Fifth economic census” organised at NASC, New Delhi on 29 May 2008.
- Foundation Day lecture 2008 on “Rejuvenating agriculture: The challenges ahead” by Dr. Montek Singh Ahluwalia, Dy. Chairman, Planning Commission and Annual General Body Meeting of the National Academy of Agricultural Sciences organised at ICAR Symposium Hall, NASC Complex, New Delhi during 04-05 June 2008.
- National seminar on “Production, processing, marketing and export of litchi for economic prosperity” organised at National Research Centre for Litchi, Muzaffarpur (Bihar) during 08-11 June 2008.
- Training workshop on “Computable general equilibrium modeling” under NAIP project Visioning Policy Analysis and Gender (V-PAGe) - Sub-Programme-III: Policy, Analysis & Market Intelligence organised at Indira Gandhi Institute of Development Research, Mumbai during 17-26 June 2008.
- National Symposium on “Livestock genomics in productivity enhancement for food security” organised at NASC Complex, New Delhi during 03-04 July 2008.
- Workshop on “Improvement of agricultural statistics” organized by Directorate of Economics and Statistics, Ministry of Agriculture, New Delhi in Vigyan Bhawan during 05-06 July and 08-09 July 2008 and made presentation on Causes of variation in official and trade estimates of cotton production.
- Workshop on “Scientific writing” organized by Directorate of Information and Publications of Agriculture on 08 August 2008 at NASC, New Delhi.
- ICAR VICHAR MANCH special lecture on “Global food crisis: Policy options for developing countries” delivered by Dr. Joachim von Braun, DG, IFPRI organised at NASC, New Delhi on 11 August 2008.

- Workshop on “Exploring future of Indian agriculture” under NAIP project V-PAGE organised at NCAP, New Delhi during 01-02 September 2008.
- Training programme on “Agricultural policy research” organised at IGIDR, Mumbai during 15-20 September 2008.
- Interactive Workshop on “Climate change and Indian livestock” organised at National Dairy Research Institute, Karnal during 20-21 September 2008.
- Regional Workshop on “Farm mechanization for small holder agriculture in SAARC countries” organized by CIAE, Bhopal, during 22-24 September 2008.
- 10<sup>th</sup> Executive Training Programme at NAARM Hyderabad during 23-27 September 2008.
- 2<sup>nd</sup> Green Revolution Summit and Expo’ organized at Kolkata during 24-26 September 2008.
- 28<sup>th</sup> workshop of AICRP on Cropping Systems organised at Regional Station, TNAU, Kanyakumari during 03-05 October 2008.
- 5<sup>th</sup> Convention of “Grameen gyan abhiyan” from 03-05 October 2008 at NASC, New Delhi.
- International Conference on e-Content & Sustainability and ICT Mela organized at NCUI Auditorium, August Kranti Marg, New Delhi during 16-18 Oct. 2008.
- 35<sup>th</sup> Foundation Day Programme of Agricultural Scientists Recruitment Board organised at Symposium Hall, NASC, New Delhi during 04 November 2008.
- National Education Day Lecture organised at IARI, New Delhi during 11 November 2008.
- Workshop on “Heuristic evaluation of websites of Deemed Universities in NARS” held at the Unit of Simulation and Informatics (USI), Indian Agricultural Research Institute, New Delhi on 14 November 2008. One scientist chaired the Pre Lunch Session of the workshop and presented an overview of NISAGENET to the Participants.
- Conference of Central and State Statistical Organisations organized by Department of Economics and Statistics, Himachal Pradesh organised at Shimla during 04-05 December 2008.
- “Promotion of sulphur fertilizer use in Indian agriculture” organised at India Habitat Centre, New Delhi on 10 December 2008.
- 27<sup>th</sup> Annual workshop of AICRP-PHT at UAS Bangalore on 17-20 December 2008.
- National Meet on “Tractor and allied machinery manufacturers (TAMM-2008)” and XXVII Annual Workshop of AICRP on FIM organised at IIT, Kharagpur during 19-21 December 2008.
- Workshop on “Research methodology and survey techniques for development” at IPEM Group of Institutions in collaboration with IASDS, Lucknow at Ghaziabad during 29-30 December 2008.
- National Seminar on “Rural India developmental alternatives: Sectoral convergence for livelihood security” inaugurated by Chairman of ASRB organized by Mobilization (society for community Mobilization for Sustainable Development) in collaboration with CIRG, Makhdoom, Farah, Mathura (UP) organised on 16 January 2009.
- Workshop on “Fisheries Information System Network (FISHNET)” jointly organized by the Department of Animal Husbandry, Dairying and Fisheries (DADF) and National Informatics Center (NIC) on 21 January 2009 at NASC, New Delhi.
- Workshop on “e-Prabha : agricultural digital thesis depository “ at CCSHAU, Hissar during 24-25 February 2009.
- SPSS 17.0 launch programme organised at IASRI, New Delhi during 28-29 January 2009.
- Presentation by Department of Science and Technology on “Estimation of yield at Gram Panchyat level through Remote Sensing Technology” organized by Agriculture Insurance Company of India at Krishi Bhawan, New Delhi on 09 March 2009.
- Workshop on Koha : An open access library Management Software at DELNET, JNU Campus, New Delhi during 24-27<sup>th</sup> March 2009.
- Training programme on “Applied analytics using SAS enterprise Miner 5” from 26-28 March 2009 at Statistical Intelligence Business Analytics Pvt. Ltd, Bangalore organized by SAS Institute (India) Pvt. Ltd, Mumbai.

- Training workshop on “Technology foresight methodologies in agricultural innovation system” organised at Centre for Studies in Science Policy, JNU, New Delhi during 31 March to 10 April 2008.

#### LECTURES DELIVERED AT OTHER ORGANISATIONS

##### Dr. Prajneshu

- Two lectures in a training programme at the Division of Agricultural Economics, IARI, New Delhi on 16 October 2008.

##### Dr. Ranjana Agrawal

- Delivered a lecture on “Pre-harvest forecasting of crop yield” in the training programme on Advances in Agricultural & Food Marketing under Centre of Advance Studies in Agricultural Economics at IARI, New Delhi on 07 October 2008.

##### Dr. UC Sud

- A lecture on “Use of NSSO data in agricultural research” in a training programme on Price Trends and Market Integration organised by Division of Economics, IARI, New Delhi during 16-25 October, 2008.
- Four lectures on “Model based procedures for small area estimation, Small area, Mixed models, Small area estimation – Some applications in India and Small area estimation using R” to senior and middle level officers of ISS in a training programme organized by GKVK, UAS Bangalore during 22-23 January 2009.

##### Dr. Rajender Parsad

- Two lectures on “Multivariate Techniques: Application to Marketing” to the participants of the training programme on Advances in Agricultural & Food marketing held at Division of Agricultural Economics.
- Two lectures on "Statistical Techniques Useful in Food Quality Control" to the participants of the Winter School on Application of Quality Assurance and Food Safety Systems in Supply Chain and Agribusiness Development held at Division of Post Harvest Technology, New Delhi during September 30 – October 20, 2008.
- A lecture on "Fundamentals of Design of Experiments with Emphasis on Agroforestry

Experiments” to the participants of the training programme on Advances in Agroforestry Research and development for the scientists of ICFRE, Dehradun organized at National Research Centre for Agroforestry, Jhansi during November 24 – December 05, 2008.

- A lecture on "Design of Experiments: An Overview" and Applications on December 11, 2008 at Ram Lal Anand College, New Delhi.
- A lecture on "Multivariate Analytical Techniques: An Overview" to the participants of the Training Programme on Sustainable agricultural development for food security' held at Division of Agricultural Economics, IARI, New Delhi during January 08-28, 2009.
- Two lectures on "Fundamentals of Experimental Designs", and "Analysis and Interpretation of Experimental Data" to the participants of Training Cum Workshop on Statistical Tools for Data analysis organized for the capacity building of the consortium partners of the Project Development of Decision Support Systems for Insects Pests of major Rice and Cotton Based Cropping Systems at CRIDA, Hyderabad during March 02-07, 2009.

##### Dr KK Tyagi

- A lecture on “Long term farm mechanization strategy for different agro climatic zones in India”, in the CAS training programme on Advances in Agricultural and Food Marketing organized at Division of Agricultural Economics, IARI, New Delhi on 14 October 2008.

##### Sh. RS Khatri

- A lecture on “Arid horticulture” in a training programme organized by Agricultural Economics, Extension and Training Division, CAZRI, Jodhpur (Rajasthan) during 05-12 January 2009.
- A lecture on “Bharat mein krishi ka vikas - Ek najar mein” in the National training programme on Commercial Goat Farming organized by Central Institute for Research on Goats, Makhdoom, Mathura, UP on 20 October 2008.

##### Dr. SP Bhardwaj

- A lecture on “Logistics for supply chain management” in a winter school on Application of Quality Assurance and Food Safety Systems in Supply Chain and Agribusiness Development at

Division of Post Harvest Technology, Indian Agricultural Research Institute, New Delhi on 16 October 2008.

- A lecture on “Supply chain management” in winter school at Division of Agricultural Economics, Indian Agricultural Research Institute, New Delhi on 14 October 2008.

#### Dr. Anil Rai

- A lecture on “Application of data warehousing in agriculture” at Indian Institute of Management (IIM), Lucknow during 16-27 February 2009.
- A lecture on “Remote sensing and GIS” in a refresher course on Computer Applications at Center for Professional Development in Higher Education (CPDHE), University of Delhi on 20 September 2008.
- A lecture on “Log linear modeling using SPSS” in a training programme on Price Trends and Markets Integration at Division of Agricultural Economics, IARI, New Delhi on 21 October 2008.

#### Dr. Seema Jaggi

- A lecture on “Application of multiple regression technique for market analysis” under a CAS training programme on Advances in Agricultural and Food Marketing at Division of Agricultural Economics, IARI during 3-23 October 2008.
- A lecture on “Statistical designs for engineering experiments” in winter school on Designer and Functional Foods through Extrusion Cooking Technology organized at CIPHET Ludhiana on 16 December 2008.
- A lecture on “Statistical tests for monitoring and evaluation” under a training programme on Monitoring and Evaluation Techniques at Division of Agricultural Extension, IARI, sponsored by Directorate of Extension, Dept. of Agriculture and Cooperation, Ministry of Agriculture, Govt. of India during 14-21 October 2008.

#### Dr LM Bhar

- Three lectures on “Augmented designs, Balanced block designs and Factorial experiments” at Birsa Agricultural University, Ranchi during 04-06 August 2008.
- Two lectures on “Regression diagnostics and Non-linear regression models” in a training programme

on Application of Statistical Tools for Data Analysis held at Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad during 02-07 March 2009.

#### Dr. AR Rao

- A lecture on “R - Statistical software for marketing data analysis” in training programme at the Division of Agricultural Economics, IARI, New Delhi on 16 October 2008.
- A lecture on “SPAR 2.0” at Birsa Agricultural University, Ranchi during 28-29 July 2008.

#### Dr. AK Gupta

- A lecture on “Estimation of area, production and productivity in flower crops” in the training programme on Advances in Floriculture Research and Development of Floricultural Crops organised at the Division of Floriculture and Landscaping, IARI, New Delhi on 24 October 2008.

#### Dr. V Ramasubramanian

- A lecture on “Technology forecasting methods for planning future agricultural scenario” in the CAS training programme on Sustainable Agricultural Development for Food Security held at Division of Agricultural Economics, IARI, New Delhi during 08-28 January 2009.
- A lecture on “Time series analysis” in the CAS training course on Advances in Agricultural and Food Marketing at Division of Agricultural Economics, IARI, New Delhi during 03-23 October 2008.

#### Dr. Prachi Misra Sahoo

- A lecture on “Geographical information system, its application in agriculture and recent developments” in the workshop-cum-training programme on Bioinformatics and Information Management in Aquaculture held at Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar during 19-21 March 2009.
- A lecture on “Overview and applications of GIS in socio-economic research” in the training programme on Sustainable Agricultural Development for Food Security in the Division of Agriculture Economics, IARI, New Delhi during 16-25 October 2008.

#### Dr. Anil Kumar

- A lecture on “Combined analysis and multicollinearity in cropping systems experiments”

in a winter school on Developing New Options in Integrated Nutrient Management for Sustainable Crop Production and Soil Health organised at Project Directorate for Cropping Systems Research, Modipuram on 26 December 2008.

#### Dr. Sudeep Marwaha

- Six lectures in refresher course of Computer Applications organized at Institute of Life Long Learning, University of Delhi from 10-30 September 2008.

#### Mohd. Samir Farooqi

- A lecture on "Use of SPSS" in the CAS training programme organized by Division of Economics, IARI, New Delhi on 15 October 2008.
- A lecture on "Livestock census in India" in a training programme on Commercial Goat Farming organized by Central Institute for Research on Goats, Makhdoom, Mathura, UP on 03 November 2008.

#### Sh. KK Chaturvedi

- A lecture "Basics and overview of GAMS" in the NAIP training programme on Price Trends and Market Integration during 16-24 October 2008.
- A lecture on "e-Marketing and food products in agriculture" in the CAS training program on Advances in Agricultural and Food Marketing at IARI during 03-23 October 2008.
- A lecture on "Data warehousing: A step ahead databases" in a national seminar on Emerging Technology on Data Acquisition held at Sri Guru Govind Singh College of Commerce (Delhi University), New Delhi on 12 February 2009.

#### Sh. SN Islam

- A lecture "Expert system: An IT application for crop protection" in a winter school on IPM in Wheat Based Cropping System organized at DWR Karnal during 05-25 February 2008.
- A lecture in Hindi on "कृषि में सूचना प्रौद्योगिकी के प्रयोग" in a Hindi Workshop organized at Bharatpur by NRC Mustard on 18 April 2008.
- A lecture on "Enhancing efficiency and effectiveness of people at work" in NAARM off campus programme based on the request received from NRCSS, Ajmer on 19 September 2008.

- A lecture on "Expert systems and its applications" in a national seminar on New Paradigms in Computing at Bhai Parmanand Institute of Business Studies on 25 February 2009.

#### VISIT ABROAD

- Dr. Rajender Parsad deputed to International Centre of Agricultural Research in Dry Areas, Aleppo, Syria for providing biometric consultancy to the scientists at headquarters of ICARDA during April 27, 2008 to July 26, 2008.
- Dr. Rajender Parsad deputed to attend Final Review Meeting of the ADB Project on Enhancing Farmers Income and Livelihoods through Integrated Crop and Resource Management in the Rice-Wheat System in South Asia held at Kathmandu, Nepal during 25-26 November 2008. He also delivered a talk on Statistical designing and analysis of farmers' participatory research trials for conservation agriculture.
- Dr. Sushila Kaul deputed to present a paper at 5<sup>th</sup> Asia-Pacific Co-operative Research Conference organized by 'International Cooperatives Alliance' at Hanoi, Vietnam on 02 December 2008.

#### MEETINGS

- Research Advisory Committee meeting at PDCSR, Modipuram on 17 April 2008 and during 24-25 March 2009.
- Presented Agricultural Field Experiments Information System (AFEIS) in the SLTP meeting (kharif & rabi programmes) held at ANGRAU, Rajendranagar, Hyderabad on 07 May 2008.
- Annual IRC of the National Research Centre on Camel, Bikaner as an Outside Expert in Statistics organised at National Research Centre on Camel, Bikaner during 09 May 2008.
- Meeting under the chairmanship of ADG (Engg.) at Krishi Anusandhan Bhawan regarding the All India project on Harvest and Post-Harvest Losses on 08 August 2008.
- Meeting at NE-SAC, Shillong for implementation of the methodology for estimation of area under paddy crop developed by the Institute in all other North Eastern States on 12 August 2008.
- Meeting with the Principal Secretary (Ag.) & Director (Ag. Stat. & Crop Insurance), UP, regarding "Pilot



- study on small area crop estimation approach for crop yield estimates at gram panchayat level” at Lucknow on 18 August 2008. Also, participated in a meeting with the Scientists of Central Institute of Aromatic and Medicinal Plants (CIAMP), Lucknow on 19 August 2008.
- Meeting of Working Group for construction of index numbers of area, production and yield of crops, Directorate of Economics and Statistics, Ministry of Agriculture, Govt. of India, New Delhi.
  - Screening Committee and Empowered Committee meetings for the scheme "Awards and Fellowships" for Outstanding Meritorious Research Work in Statistics of the Ministry of Statistics and Programme Implementation, New Delhi.
  - Meeting of the Expenditure Finance Committee (EFC) to consider the memorandum on integrated sample survey for estimation of major livestock products during 11<sup>th</sup> Five Year Plan under the Chairmanship of Secretary, Deptt. of Animal Husbandry, Dairying and Fisheries (DADF) at Krishi Bhawan, New Delhi on 09 September 2008.
  - Meeting under the Chairmanship of DDG (Engg) for discussing observations of the Hon DG / DDG (Fisheries) / ADG (Engg) on Agricultural Research Data Book 2008 on 11 September 2008.
  - A meeting held on 15<sup>th</sup> September 2008 regarding organisation of 4<sup>th</sup> World Congress on Conservation Agriculture to be held during 04-07 February 2009.
  - Meeting of Screening Committee to discuss the project proposals for updating rates and ratios at CSO, Sardar Patel Bhawan, New Delhi on 26 September 2008 under the Chairmanship of Adl. Director General (NAD).
  - Advisor and Head from National Dairy Development Board (NDDB), Anand, Gujarat visited IASRI on 30 September 2008 to discuss the modalities for collaborative research study on milk production estimates in one of the districts of Uttar Pradesh.
  - High Level Co-ordination Committee Meeting of Agricultural Statistics for Karnataka, Uttar Pradesh, Haryana, Tamil Nadu & Rajasthan states.
  - 47<sup>th</sup> meeting of the Project Advisory Committee of DST at Birla Science Centre, Jaipur on 14 November 2008.
  - Meeting of the Steering Committee for preparation of manuals under the Chairmanship of DG, CSO on 09 January 2009.
  - 3<sup>rd</sup> meeting of the Technical Committee on FASAL under the Chairmanship of Dr. SM Jharwal, Principal Advisor, DAC on 05 February 2009 at Krishi Bhawan, New Delhi.
  - 6<sup>th</sup> Meeting of the Technical Monitoring Committee (TMC) for the Central Sector Scheme on "Strengthening of Database and Geographical Information System for the Fisheries Sector" under the Chairmanship of Dr. VK Bhatia, Director IASRI, at Central Fisheries Research Institute (CIFRI) Barrackpore, Kolkata, West Bengal on 12 February 2009.
  - Meeting of the Committee constituted for the revision of methodology for estimation of major livestock products and the prescribed guidelines under the Chairmanship of Animal Husbandry Commissioner on 13 February 2009 at Krishi Bhawan, New Delhi.
  - Meeting pertaining to presentation on assessment of yield at GP level using remote sensing technology made by Department of Science and Technology in Krishi Bhawan, New Delhi under the Chairmanship of Dr. SM Jharwal, Principal Adviser, DES, Min. of Agriculture, GOI on 09 March 2009.
  - Meeting of the organizers of the NCiset 2009 at IARI, New Delhi on 12 March 2009.
  - Meeting of organizers of the National Symposium on Floriculture for livelihood and profitability at IARI, New Delhi during 16-19 March 2009.
  - Expert Consultation Meeting on Guidelines for Testing and Releasing of Tree Varieties and Clones organized at ICFRE, Dehradun.
- Related to Agricultural Statistics Systems**
- Meeting under the Chairmanship of Secretary (A&C), Ministry of Agriculture, Govt. of India held at Krishi Bhawan on 30 June 2008 to discuss the possible causes of variation between official and trade estimates of Cotton production and to discuss the ways to arrive at a single set of estimate of Cotton production.
  - Meetings of the Standing Committee for the Conference of Central and State Statistical

Organizations (COCSSO) under the Chairmanship of Secretary (S&PI) at Sardar Patel Bhawan, New Delhi on 16 July 2008 and 12 Nov. 2008.

- Meeting under the Chairmanship of Textile Commissioner, Govt. of India held at Office of Textile Commissioner, Mumbai on 05 September 2008 involving all trade organizations, traders associations, ginning/pressing mills representatives, representatives from Ministry of Textiles, Ministry of Agriculture and IASRI and members of Cotton Advisory Board to discuss the possible causes of variation between official and trade estimates of Cotton production and to discuss trade methodology for arriving at final figure of cotton production.

#### **Related to Teaching Activities**

- Meeting as an Expert of the Screening Committee for filling of vacant teaching positions in FOA at SKUAST, Jammu during 14-15 May 2008.

#### **Related to Administrative Activities**

- Institute Management Committee meeting held on 17 January 2009.
- Annual General meeting of Indian Council of Agricultural Research on 20 January 2009 at NASC Complex, New Delhi.
- 47<sup>th</sup> meeting of the Project Advisory Committee of DST organised at Birla Science Centre, Jaipur on 14 November 2008.