

**NAIP Consortium
Strengthening Statistical Computing for NARS
(Platform for Statistical Computing)
www.iasri.res.in/sscnars**

Consortium in News

ICAR



Reporter



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APRIL-JUNE 2010

**Strengthening Statistical Computing for
National Agricultural Research System**

New Delhi, 8 June 2010. Dr S. Ayyappan, Secretary (DARE) and Director-General (ICAR), inaugurated the Launch Workshop on 'Strengthening Statistical Computing for National Agricultural Research System' under NAIP Consortium. This project is a realization of the visualization of research managers, research facilitators, researchers and trainers to create a sound and healthy statistical computing environment for the benefit of scientists of National Agricultural Research System (NARS). The goal of the project is to provide research guidance in statistical computing and computational statistics so as to provide enabling statistical computing facilities to the researchers of NARS. The efforts would not merely be focused on an interface of statistics, computer science and numerical analysis, but it would also involve designing of intelligent algorithms for implementing statistical techniques particularly for analyzing massive data sets, simulation, bootstrap, etc.



The availability of healthy statistical computing environment would enable the researchers in National Agricultural Research System to undertake probing, in-depth, appropriate, intractable analysis of data generated from agricultural research including those in advanced research areas like biotechnology, genomics, micro-arrays, forecasting, agricultural field experiments, surveys, microarrays, massive data sets such as climate change, biodiversity, market intelligence, etc. It would also facilitate data sharing over web and creation of analytics over the web useful for All India Co-ordinated Research Projects and other Network Projects of National Agricultural Research System.

Dr Ayyappan, emphasized the need to sensitize the researcher managers about the capabilities of this project in making the agricultural research globally competitive, visible and acceptable. To this end Indian Agricultural Statistical Research Institute has

to play a proactive role by describing success stories, capabilities and features of the statistical computing environment through presentations in Director's Conferences, State Agricultural Universities Vice-Chancellor's Conferences, Dean's meetings and other important fora. The launch of this timely initiative to reinvigorate the agricultural research system with advanced computing facilities and development of computing skills would provide enhanced visibility to Indian Agricultural Statistical Research Institute and agricultural statistics discipline in National Agricultural Research System. This project has brought all 151 NARS organizations in a closed network. The training component of the project is also very exhaustive and targets at training 1,500 agricultural research scientists in the country in the usage of high-end statistical package. These would then become trainers and in turn train other agricultural research scientists. Such an effort would have a multiplier effect.

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skills and technologies developed by institutions Council of Agricultural Research and the State universities over the years have significantly enhanced productivity, quality and production. However, realisation of agricultural research coupled with aims of proprietary rights over innovations in changing not only the nature of agricultural research but also the nature of agricultural research institutions. The new approach in agricultural research is to provide the new paradigms, agricultural diversification and value addition of agricultural providing real equity and livelihood security. This is essentially require an innovation system centric



be on creation of new knowledge with both social perspectives. It is not just the new invention or a important, but the recognition of the potential of for developing new products, services or systems to bring about significant changes in the society. An effective innovation system would essentially require the institutions in the public and private sectors, the farmer organisations, so that all these stakeholders come partners in the production, diffusion and use of economically useful knowledge; and that alone would the innovation process.

issues relating to IP management, the ICAR formulated policies on "Intellectual Property Management and Transfer Commercialization" that provide the required framework to develop research partnerships. The ICAR has finalized three-tier institutional mechanism; wherein Intellectual Property Management Unit (ITMU) and a Committee established in each institute that are empowered to



News in Brief

From the DG's Desk	1
Workshops, Meetings, Seminars, Symposia, Conferences	
Development of entrepreneurship among farmers - 5th National conference on KVK	3
Meetings of ICAR Regional Committees	4
Secondary agriculture must uplift rural economy	5
Brackishwater Aquafarmers' Meet 2010	5
Strategies for sustainable meat production	5
VGs of Agricultural Universities meet to discuss XII Five-Year Plan	6
Nutritional Interventions for Sustainable Dairy Production in Goa	7
All India State Animal Husbandry Directors' meet	8
Rabi crop prospects and its preparedness meet	8
National Farm Innovators Meet 2010	9
President USA appreciated ICAR agricultural tools	10
New Plan Scheme on Climate Resilient Agriculture	10
Success Stories	
Low poly tunnel cultivation of bottle gourd in off-season	12
Sustainable livelihood through Kadaknath production	12
Celebrations/Farmers Corner/Capacity Building	
Farmers/Entrepreneurs appreciated ICAR technologies at CII Agro-Tech, 2010	13
Healthy animal, wealthy farmer - IVRI Kisan-Mela	13
Open Access Institutional Repository launched	14
Women in Agriculture Day observed	16
World Food Day celebrated	17
First World Statistics Day organized	17
Trainings and Winter Schools	19
Personnel	20

From the DG's Desk

Dear Readers,

Information Communication Technology (ICT) has facilitated the much needed community empowerment and development by meeting their information needs. ICT is also an important enabler in research activities to accomplish tasks faster, more efficiently and effectively. It holds as much potential for development of agriculture sector as for any other sector in India.

ICAR has initiated various ICT programmes for agriculture sector in the country. Major ICT initiatives are e-connectivity of 200 Krishi Vigyan Kendras spread across the country, Video-Conferencing and IP Telephony for agricultural scientists, Agricultural Research Portal, Centralized and Secure Data Center, National Agricultural Bioinformatics Grid, Digital Repositories of Research Information, e-Learning courseware for UG/ PG programs in Agriculture, E-Publishing and Open Access of research journals, MIS for e-Governance.



The Consortium for e-Resources in Agriculture (CeRA) established at Indian Agricultural provides access to a collection of about 2,000 international journals in more than 120 libraries in National Agricultural Research System (NARS). Till October 2010, the number of visitors to CeRA website is more than 2 million and the total download of full text articles is more than 1.5 million. A high-end statistical package SAS would enable the researchers in NARS to undertake probing, in-depth, appropriate, intractable analysis of data generated in advanced research areas, and it would also facilitate data sharing over web and creation of analytics over the web useful for All India Co-ordinated Research Projects and other Network Projects of NARS.

More recent initiatives include m-Krishi - a mobile agro-advisory

Scientific analysis of data must for successful research

HT Correspondent

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RANCHI: Agricultural universities and research institutes of Indian Council of Agricultural Research (ICAR) are continuously generating a lot of data and scientific analysis. For this reason using universally accepted techniques and tools was necessary for its utilisation in improving farm production, productivity and mitigating the climate change related problems in the country, said Dr DK Panda, scientist of Bhubaneswar-based Directorate of Water Management (DWM) on Saturday.

He was addressing the valedictory session of the six-day training programme on 'Data analysis using statistical analysis software (SAS)' organised jointly by DWM and Birsa Agricultural University (BAU) at Ranchi Agriculture College.

"Data acquired in laboratory and on-farm research using electronic and other recording devices and from archived sources are required to be subjected to descriptive, inferential, diagnostic and analytical processing for best use," Panda added.

The programme was organised under the project 'Strengthening statistical computing for national agricultural research system (NARS)' sponsored by the World Bank-aided National Agricultural Innovation Project (NAIP). DWM, Bhubaneswar is acting as the lead centre for 22 institutions of eastern India.

Dr Shivendra Kumar, head of ICAR's Horticulture and Agroforestry Research Programme (HARF) gave away certificates to the trainees and advised them to use the practical knowledge and skills acquired here in their research works.



प्रशिक्षण कार्यक्रम संपन्न
 रांची। सॉफ्टवेयर के प्रयोग द्वारा आंकड़ों का विश्लेषण विषय पर रांची कृषि कॉलेज में आयोजित प्रशिक्षण शनिवार को संपन्न हुआ। पाठ्यक्रम समन्वयक प्रकाश कुमार ने बताया कि इसमें 28 वैज्ञानिकों ने हिस्सा लिया। डॉ डीके पांडा, डॉ लाल मोहन भर, डॉ संजीव कुमार एवं एस साहू प्रशिक्षक के तौर पर मौजूद थे। हार्प प्लावु के प्रधान डॉ शिवेंद्र कुमार ने प्रशिक्षणार्थियों के बीच प्रमाण पत्र बांटे।

Researchers' Training IV : Data Analysis using SAS was conducted during 21-26 Feb., 2011 at IVRI, Izatnagar. Seventeen participants attended this program.

राष्ट्रीय
सहारा

लखनऊ | बुधवार • 23 फरवरी • 2011

बिना आंकड़ों के शोध करना दुर्लभ कार्य

बरेली (एसएनबी)। भारतीय पशु-चिकित्सा अनुसंधान संस्थान के पशुधन अर्थशास्त्र सांख्यिकी एवं सूचना तकनीकी विभाग के सभागार में 6 दिवसीय प्रशिक्षण कार्यक्रम आयोजित किया गया।

इस अवसर पर मुख्य अतिथि डा. जगमोहन कटारिया, संयुक्त निदेशक (शोध) ने विभिन्न स्थानों से पधारे प्रशिक्षार्थियों को सम्बोधित करते हुए कहा कि सांख्यिकी का विज्ञान के शोध कार्यों में प्रक्षेत्र क्षेत्रों के साथ-साथ प्रयोगशालाओं में विशेष महत्व है। बिना आंकड़ों के वैज्ञानिक शोध करना नितान्त दुर्लभ कार्य है।

उन्होंने संस्थान के इतिहास पर प्रकाश डालते हुए कहा कि यह 120 वर्षों से अधिक पशुपालकों की सेवा में तत्पर है। पशुओं की विभिन्न बीमारियों (खुरपका-मुंहपका) के टीके इस संस्थान के वैज्ञानिकों द्वारा विकसित किये गये हैं। डा. कटारिया ने पाठ्यक्रम के आयोजक डा. बी सिंह एवं उनकी टीम को इस

विषय पर पाठ्यक्रम कराने के लिए बधाई दी और प्रतिभागियों से आशा व्यक्त की कि इस प्रशिक्षण के दौरान जो भी तकनीकें सीखें उनके अपने-अपने संस्थानों में दूसरों को अवश्य बतायें।

कार्यक्रम के मुख्य अन्वेषक एवं प्रधान वैज्ञानिक डा. बी सिंह विभागाध्यक्ष ने इस प्रशिक्षण कार्यक्रम के सम्बन्ध में रूपरेखा प्रस्तुत करते हुए कहा कि मथुरा पन्तनगर, इज्जतनगर मुक्तेश्वर पालमपुर कापुर एवं अल्मोड़ा आदि स्थानों से है। इस दौरान प्रतिभागियों को 24 व्याख्यान द्वारा 10 लब्ध विद्वानों द्वारा अवगत कराया जायेगा। उन्होंने प्रशिक्षण कार्यक्रम में पूर्ण सहयोग देने के लिए संस्थान निदेशक के प्रति आभार व्यक्त किया। कार्यक्रम का संचालन डा. टीए खान वरिष्ठ वैज्ञानिक द्वारा किया गया जबकि धन्यवाद ज्ञापन डा. शिव प्रसाद प्रधान वैज्ञानिक द्वारा दिया गया। इस अवसर पर एनईएस विभाग के डा. मेदराम वर्मा श्री अजय शुक्ला श्री ओम प्रकाश तकनीकी अधिकारी रणवीर सिंह एवं अन्य लोग उपस्थित थे।

► छह दिवसीय प्रशिक्षण कार्यक्रम

Researchers' Training V: Data Analysis using SAS was organized during 18-23 July, 2011 at GBPUA&T, Pantnagar by IVRI, Izatnagar. Twenty six participants attended this program.

हल्द्वानी, 19 जुलाई 2011 **दैनिक जागरण**

सटीक शोध परिणाम को कंप्यूटर प्रशिक्षण

पन्तनगर : सटीक शोध परिणाम व आंकड़ों के विश्लेषण के लिए वैज्ञानिकों को कंप्यूटर के विशेष प्रशिक्षण की व्यवस्था की गई है। इसके तहत सोमवार को विज्ञान एवं मानविकी महाविद्यालय में भारतीय पशु चिकित्सा संस्थान व गणित एवं सांख्यिकी विभाग के सौजन्य से कंप्यूटर प्रशिक्षण का शुभारंभ किया गया।

कार्यक्रम का शुभारंभ करते हुए अधिष्ठाता डॉ. बीआर के गुप्ता ने शोध उपलब्धियों में सांख्यिकी व आंकड़ों के विश्लेषण का विशेष महत्व बताया। उन्होंने कंप्यूटर के माध्यम से प्राप्त आंकड़ों को

सटीक शोध परिणामों के लिए अनिवार्य विषय बताया। इससे पूर्व आइवीआरआइ के वैज्ञानिक व कार्यक्रम निदेशक डॉ. बी सिंह ने कार्यक्रम के उद्देश्यों पर प्रकाश डाला। इससे पूर्व कार्यक्रम संयोजक डॉ. एके शुक्ला ने आगंतुकों का स्वागत किया तथा कार्यक्रम के अंत में नोडल अधिकारी डॉ. एसबी सिंह ने आभार जताया। इस अवसर पर निदेशक संचार डॉ. वीर सिंह, पर्यावरण विभागाध्यक्ष डॉ. उमा मेल्कानिया, विभागाध्यक्ष कंप्यूटर साइंस डॉ. सामंत रे, डॉ. शिव प्रसाद व मेदराम वर्मा, आरएस राजपूत व रवींद्र सिंह आदि मौजूद थे।

Researchers' Training VII : Analysis of Animal Science Data Using SAS organized during 9-14 January, 2012 at CIRG, Mukhdoom (Mathura) by IVRI, Izatnagar. **Twenty two** participants attended the training program.



Researchers' Training VIII: Data Analysis Using SAS organized during March 19-24, 2012 at CSAUA&T, Kanpur by IVRI, Izatnagar. **Twenty nine** participants attended the training program.



कैंपस



सोमवार को ट्रेनिंग कैंप का उद्घाटन करते निदेशक रिसर्च डॉ. एलपी तिवारी।

‘गोल्ड स्टैंडर्ड’ निखारेगा कृषि शोध

कानपुर। चन्द्रशेखर आजाद कृषि एवं प्रौद्योगिक विश्वविद्यालय (सीएसए) में होने वाली कृषि रिसर्च को ‘गोल्ड स्टैंडर्ड’ के माध्यम से ऐसे पेश किया जा सकता है जिससे उसकी राष्ट्रीय और अंतर्राष्ट्रीय स्तर पर स्वीकार्यता बढ़ जाए। भारतीय पशु चिकित्सा अनुसंधान संस्थान (आईवीआरआई), बरेली और इंडियन स्टेटिस्टिकल रिसर्च इंस्टीट्यूट के सहयोग से शुरू हुए इस ट्रेनिंग कैंप का उद्घाटन सोमवार को निदेशक रिसर्च डॉ. एलपी तिवारी ने किया। डॉ. तिवारी ने वैज्ञानिकों और शिक्षकों को एसएसएस साफ्टवेयर से आंकड़ों के सांख्यिकी विश्लेषण से शोध उपलब्धियां के अंतर्राष्ट्रीय प्रकाशन पर जोर दिया। नोडल अधिकारी डॉ. मुनीष कुमार गंगवार ने बताया कि इस ट्रेनिंग में सीएसए और भारतीय दलहन अनुसंधान संस्थान के 28 वैज्ञानिक भाग ले रहे हैं। आईवीआरआई, बरेली से आए निदेशक डॉ. बी सिंह ने बताया कि इस साफ्टवेयर के माध्यम से अनुसंधानकर्ता अपने शोध आंकड़ों का विश्लेषण कर उसे और अधिक महत्वपूर्ण बना सकेंगे। डॉ. सिंह ने बताया कि आंकड़ों के विश्लेषण में इस साफ्टवेयर की उपयोगिता अत्यन्त आवश्यक है।

