



KRUSHI VISHWA

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श्रद्धिना पुरुदससा नरा शवीरया धिया ।
धिष्ण्या वनत गिरः ॥

O learned people ! you should make full use of the elements of heat and water which can perform numerous functions in technology: are capable of increasing the speed of transport services; can provide motive power for industrial uses; and give insight into the technical science.

Rig Veda, Chapter 1, Section 3, Mantra 2.

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"We are witnessing the beginning of a new chapter in the technological transformation of our farming techniques."

Dr. M. S. Swaminathan

It is the supreme art of the teacher to awaken joy in creative expression and knowledge.

- Albert Einstein



Shri Naval Kishore Sharma, Chancellor & Governor of Gujarat state offers degrees and medals to the students at 2nd Annual convocation

The 2nd convocation of Junagadh Agricultural University was held on Feb. 2, 2007. Hon. Governor and Chancellor Shri Naval Kishore Sharmaji presided over the function. Shri Bhupendrasinh Chudasama Minister of Agriculture & Cooperation, Gujarat state delivered the convocation address.

Total thirty seven gold plated silver medals were conferred to outstanding and brilliant students. Mr. Ajay Singh, a student of College of Agriculture received thunderous applause by bagging 13 medals.

H.E. Shri Navalkishor Sharmaji said that agricultural universities have to play major role in agricultural development. Education is root of social development. He advised students to develop spirit of entrepreneurship and be "employment giver" rather than "employment seeker" by sheer hard work.

Shri Bhupendrasinh Chudasama, Hon. Minister of Agriculture & Cooperation, Gujarat narrated in detail the various steps taken by the Govt. of Gujarat to promote agriculture sector in the state. This is reflected in the gain in 12 percent growth rate for agriculture by state. He highlighted the success story of Krushi Mahotsav. Farmers also became aware about resources and technologies. He congratulated the scientists of University for success of Krushi Mahotsav - 2005 and 2006 which are the trend setter as they provided insight to farmers about the agricultural technologies and resources available to them. He also urged the scientists to focus their attention on the areas like value addition, soil and water conservation, qualitative improvement in horticulture crops production of high quality seeds.

Dr. B. K. Kikani, the Vice Chancellor gave an account of progress of University in the fields of education, research and extension. He informed that since the establishment of JAU, university has conferred 299 Bachelor degrees, 222 Master degrees and 64 Ph.D. degrees in the discipline of Agriculture, Agricultural Engineering & Technology and Fisheries. Total 249 students (177 in person and 72 absentia) received their degrees during this convocation.

Shri Mohanbhai Patel, Ex Minister of Irrigation, Gujarat state relived the long association he had with University specially advised the students to be visionary in their approach.

ISAE convention & symposium organized at JAU, Junagadh

The 41st ISAE Convention and Symposium of Indian Society Agricultural Engineers was organized by College of Agricultural Engineering and Technology, JAU, Junagadh during January 29-31, 2007.



The function was inaugurated by Shri R. B. Jain, Director(Technical), Jain Irrigation Systems Pvt. Ltd, Jalgaon who was the chief guest of the function.

Prof. A. C. Pandya, Ex Director, CIAE, Bhopal; Dr. B. K. Kikani, Vice Chancellor, JAU were the guest of Honour, and Dr. Nawab Ali, President, ISAE and Deputy Director General (Engg), ICAR, New Delhi presided over the function. Dr. Jain in his inaugural speech said that the pace of agricultural growth has to be accelerated if the overall economy has to grow at the targeted rate. Dr Nawab Ali stressed on the need for doing research in the areas like energy management, efficient utilization of agricultural machinery and equipments, water management, post harvest processing & value addition. Dr. B. K. Kikani stated that agriculture contributes 20 percent of Net State Domestic Products (NSDP) in Gujarat. Even the doubling the food production is on top in Government's priority list which requires an average rate of 7.18 percent annual food production.

250 participants (scientists, agricultural engineers, technocrats, industrialists and farmers) from all over the country participated. Theme papers in the field of Process Engineering, Farm power & Machinery, Soil & Water Engineering and Energy in Agriculture were presented and discussed. Scientists were awarded and honoured for their outstanding achievements in Agricultural Engineering.

Agricultural Engineering Exhibition showing different agricultural machinery, equipments and tractors during ISAE convention (29 January, 2007) put open by Dr. Nawab Ali, DDG(Engg), ICAR, New Delhi.



Research Recommendations

1. **Agricultural Residues Shredder** has been developed by the Department of Farm Machinery & Power which is operated with 6 hp diesel engine shreds plant stalks of castor, cotton and pigeon pea. The capacity is about 170 to 190 kg/hr, making pieces of 10 to 75 mm length. The volume of



shredded material reduces by about 80 percent. Thus, the value addition of about 50 to 80 percent can be made in the use of agricultural residues. The machine is recommended for the use of farmers, manufacturers and industries.

2. The Agricultural Research Station (Fruit), Mahuva is involved in developing improved varieties of fruit crops. Recently the centre has developed the Hybrid Coconut varities T x D (Mahuva) with more desirable characters like early and heavy bearing, higher yield, greater nut size and kernel weight than the earlier varieties viz.



West Coast Tall and Dwarf Green. It can be the replacement of the West Coast Tall and Dwarf Green coconut varieties and alternative to existing Hybrid D x T (Mahuva).

Demonstration : The demonstration trials were conducted on farmers' field during 2002-2006. It was observed that for effective management of root-knot nematodes (*M. arenaria*) in groundnut



crop the application of carbofuran @ 2 kg a.i. / ha with castor cake @ 1000 kg/ha prior to seeding i.e. before 2-3 days was found to be very effective.

Students' Activities

ISports

Inter collegiate competition of Kho-Kho, Weight-lifting, Kabaddi, Cricket, Basketball and Chess were successfully organised during the quarter. The university also sent six students to participate in "Cultural Composition" at Indian Institute of Technology(IIT), Kanpur (U.P.).



II N.S.S. activities

1. Environment awareness camp.

One-day camp on the "Environment Awareness" was organized on Nov.18, 2006 at JAU, Junagadh. In this camp 47 volunteers of NSS, College of Agriculture participated and also took part in the group discussion on creating eco-friendly globe.

2. Blood group and Thelesemiya test

Thelesemiya major (minor level) test camps were organized by College of Agriculture



and College of Agricultural Engineering and Technology in collaboration with Sarvodaya Blood Bank in which 167 volunteers participated.

3. **Driving License Camp :** The CAET organized driving license camp on December 2, 2006 in which 300 employees and students availed the test for getting license.

4. **HIV/AIDS Awareness Rally** marched on the path of Veraval city and drama on HIV/AIDS awareness played by the NSS volunteers of the College of Fisheries.

Cultural program comprising traditional Garba and thematic and entertainment items were displayed in a cultural program by the students of Agricultural Engineering & Technology on the eve of ISAE convention.

Events



Dr. Nawab Ali, DDG (Engg), ICAR, New Delhi, Dr. O. D. Vanzari, Project Coordinator, AICRP on Applications of Plastics in Agriculture and Dr. B.K. Kikani, Vice Chancellor alongwith University officers visited Green Houses of CAET, JAU, Junagadh.



Center of Communication Network in villages : Effective communication is the root of transformation of society. Agril. Experts are sharing the knowledge of modern farming amongst farmers at their villages.



Dr. Savitadidi, Brahmakumari Ishvariya Vishva Vidyalaya, Mt. Abu teaches how to be stress-free by Rajyoga to the scientists of JAU.

Dr. Savitadidi, asked to inculcate "3A" for better health i.e. avoid, alter and accept. She also advised to guard the self against Criticism, Comparison and Competition. The performance of individual is the result of the total behavior which emerges formed from the feelings and thinking.



Seminar on *Gauraksha* organized by KVK, Targhadia and Vashundhara Trust, Rajkot on Nov. 4, 2006. Dr. Vallabhkhair Kathiria, MP, Rajkot; Dr. M. H. Mehta, Ex VC, GAU, Shri Kuvarjibhai Jadav participated and indicated the importance of cow in modern age.



Free medical check up camp for JAU employees was organized by JAU Teachers' Association on Mar. 25, 2007 at JAU campus. Different tests and check-up of body organs like heart, lungs, blood etc were carried out by medical experts under the supervision of Dr. Dharmendra Mavani.

Seminars/Workshops/ Conferences/ Training

Sr. No.	Topic	Participant
1	26 th Annual workshop on AICRP on Post Harvest Technology at Orissa University of Agriculture & Technology during December 6-9, 2006.	Dr. A.K. Varshney Prof. V. M. Bhatt CAET
2	Seminar on " Rural Micro finance Experiences, Challenges and Opportunities" at S.P University, Vallabh Vidyanagar during October 17-18, 2006	Shri S.B. Vekariya, Shri U.M.Thumer Shri N.J.Ardeshta Department of Agril Economics, JAU.,Junagadh
3	66 th Annual conference of Indian Society of Agricultural Economics held at Umiam (Meghalaya) during November 8-10,2006.	Dr. R.L Shiyani Department of Agril Economics, JAU.,Junagadh
4	National Seminar on Plant Variety Protection at Anand Agricultural University, Anand on November 15, 2006	Dr.K.A Khunt Department of Agril Economics, JAU.,Junagadh
5	International symposium on " Balanced fertilization for sustaining crop productivity " organized at Punjab Agricultural University, Ludhiana during November 22-25, 2006.	Dr.N.B.Babaria, Dr.K.B.Polara Dr.B.B. Kunjadia, Dr.G.J. Hadwani, Prof. H.K. Shobhana, Dr.K.B. Parmar, Shri A.V. Rajani, Shri P.B.Bunsa, Deptt of Agril. Chem & Soil Science
6	National Conference on "Innovations in Indian Science, Engineering and Technology" at IARI, New Delhi	Dr. M.S.Solanki, Deptt. of Agril. Chem. and Soil Science,
7	National workshop on " An approach to analytical instruments commonly used in chemical industries" at Bhavnagar University, Bhavnagar during December 22-23, 2006	Dr.K.B.Parmar, Shri H.L.Sakarwadia, Deptt of Agril. Chem & Soil Science
8	National Conference on "Innovations in Indian Science, Engineering and Technology" at IARI, New Delhi during November 24-26, 2006.	Dr.P.K.Kapadiya Agricultural Research Station (Fruit crops), JAU, Mahuva
9	International conference on Statistics and Informatics in Agricultural Research at IASRI, New Delhi during December, 27-30 2006	Dr .H.R.Pandya Dr. S.M. Upadhyay Department of Agril. Statistics
10	QRT Report of chickpea and pigeon pea in AICRP on Pulses Research at MPKV, Rahuri during November 14-16, 2006.	Dr. H.R. Dhamelia Dr. B.R. Raghavani Pulses Research Station
11	National seminar on production and processing of Aonla (<i>Emblca officinalis</i> G.) Ahmedabad during November 21-23,, 2006	Dr.R.S.Chovatia, Dr.R.R. Viradia, Dr.A.N.Makwana, Dr.D.V.Delvadia, Dr.D.K.Varu, Prof.K.M.Karetha, Dr.T.R.Ahlawat Department of Horticulture
12	Annual Zonal Workshop for KVKs of Zone- VI at SDAU, S. K. Nagar during November 2-4, 2006 National Conference on KVK at N.G.Ranga Agric. Uni., Hyderabad during November 26-27, 2006 QRT Travel Workshop of KVKs at AAU, Anand during December 16-17, 2006	Dr. A.M. Parakhia Director of Extension Education, JAU, Junagadh and Programme Coordinators, Krishi Vigyan Kendra, Targhadia, Amreli, Khapat, Jamnagar, Nana Kandhasar
13	Training on "Reproductive Techniques to Augment Fertility in Dairy Animals". Karnataka Veterinary Animal Fisheries Sciences University, Hebbal, Bangalore during December 1-21, 2006	Dr.Ansu R. Ahlavat, Cattle Breeding Farm, JAU, Junagadh

New Research Project

Sr. No.	Name of the Project	Amount (Rs. in lakh)	Principal & Co-investigators
1	Front line demonstration on vegetable crops (onion, garlic, tomato, brinjal and okra) sponsored by Gujarat Horticulture Mission, Gandhinagar.	2.85	Dr. L.K.Dhaduk Prof. A.G.Patel Vegetable Research Station JAU, Junagadh
2	Ad-hoc research project entitled "Groundnut response to different sources of boron" sponsored by M/s Borochemic (India) Pvt. Ltd., Mumbai.	2.50	Dr.N.M. Zalawadia, Prof. P.S.Bhorania, Shri H.L.Sakarwadia Department of Agril. Chemistry and Soil Science, JAU, Junagadh
3	Experimental Learning – setting up of Facilities for Hands on Training on: Production and management of alternative/ renewable sources of energy.	50.00	Dr.P.N.Sarsavadia CAET,JAU,Junagadh
4	Design, planning & Evaluation of water shed.	75.00	Dr. R. Subbaiah CAET,JAU,Junagadh

Training Program



Training Programmes to resource persons of five KVKs are carried out frequently at DEE Office, JAU, Junagadh

Recognition



Ajay Singh, student of College of Agriculture receiving 13 Gold medals during 2nd convocation



Shri Mansukhlal Savalia, Member of Academic Council, JAU has been honoured with Kaka Saheb Kalelkar Paritoshik for his book "Bharat na Mahan Sangeetkaro" (The great musicians of India) by Dr. Kumarpal Desai, President, Gujarat Sahitya Parishad, at Gnan Satra organized at Mandavi (Kutch). Dr. Savalia has also translated a book entitled "Krushividya" written by Rushi Parashar.

Visitors

Dr.Mukesh Seghal Sr.Scientist NCIPM, I.A.R.I. New Delhi

Dr. O.P.Dhanda, Assistant Director General, ICAR, New Delhi

Dr.K.Jankiraman, Retired Director of Research of GAU

Dr.V.V.Chavan (Sr.Breeder), NARP, Aurangabad

Dr.P.S.Sekhawat (Agronomist), RAU, Bikaner

Dr.A.K.Sobti (Pathologist) RAU, Jaipur

Dr.M.K.Mandape, Zonal coordinator (TOT), Jodhpur

Dr. Vallbbhbai Kathiriya, Member of Parliament, Rajkot

Dr. Siwach, Sr. Cotton Breeder, CCS, HAU, Hariyana

KRISHI VIGYAN KENDRA functioning in Junagadh Agricultural University.

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Extension Activities



On Farm Farmers' Training by KVK, Targhadia



Food and Nutrition training imparted to the villagers by KVK, Amreli

They know enough who know how to learn.

Good teaching is more a giving of right questions than a giving of right answers.

- Henry Adams



Training on pilot project for EUREPGAP certification trainers' organized by JAU and Gujarat Agro Industries Ltd during February, 2007. 51 mango growers of Talala region participated and acquired knowledge regarding quality aspects for Kesar mango aimed for export.



Farmers' training at SSK organized by IFFCO at JAU

Winners of Gold Medals (2nd Convocation, JAU)

Sr. No.	Gold Medal	Awarded for the degree	Faculty	Name of the Student
1	Chancellor Gold Medal	M.Sc. (Agri)	Agriculture	Hirpara V.H.
2	Chancellor Gold Medal	M. Tech. (Agri Engg.)	Other than Agri.	Ms. Patel M.B.
3	Vice Chancellor Gold Medal	B. Sc. (Agri)	Agriculture	Rahul Tiwari
4	Vice Chancellor Gold Medal	B. Tech. (Agri Engg.)	Agricultural Engi.	Asit Mazumdar
5	Vice Chancellor Gold Medal	B. F. Sc.	Fisheries	Solanki J.B.

BOOK-POST

To,

From :
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- * Sardar Smruti Kendra organized 69 Extension activities involving 17169 farmers.
- * Marine Environmental camp was organized on the *Pirotan* Island in the gulf of Kutch. 60 participants studied the aspects of marine ecology like muddy, sandy and rocky habitat of inter tidal zone during the minus tide.
- * 392 visitors visited Fisheries Research Station, Sikka
- * Fisheries unit of Kisan Call Center solves the problems of fish farmers on telephone.
- * All the five KVKs are actively engaged in dissemination of agricultural knowledge to the practicing farmers, farm women and rural youths as well as to extension functionaries through on campus trainings, field days, *khedut shibirs*, crop *shibirs*, *kishan goshtis*, radio talks, T.V. programmes, help line (telephone service) and animal treatment camps.