

## Summary

Acharya N.G. Ranga Agricultural University (ANGRAU) was established in the year 1964. It is one of the premier institutes in the country known for quality higher education, problem oriented research and farmer participatory extension in the fields of Agriculture and Home Science

The mandate of the University is Teaching, Research and Extension. It has a network of 13 colleges and 11 polytechnics under two faculties of Agriculture and Home Science, 48 research stations spread across nine agro-climatic zones of the state, 22 District Agricultural Advisory and Transfer of Technology Centres (DAATTCs) and 12 Krishi Vigyan Kendras (KVKs) besides the Extension Education Institute (EEI), Agricultural Information and Communication Centre (AI&CC), Electronic Wing and Agricultural Technology Information Centre (ATIC).

During the year 2008-09, the university has undertaken a number of initiatives for the promotion of quality in its mandate areas. The major activities and achievements of the university during 2008-09 were as follows:

### Administration

- Dr.G. Lakshmi Kantha Reddy assumed the office of Director of Research on 18<sup>th</sup> February 2009.
- Dr.Shaik Mohammad assumed the office of Dean of Postgraduate Studies on 27<sup>th</sup> February 2009.
- Dr.L. Jalapathi Rao took over as the Registrar on 27<sup>th</sup> February 2009.
- Dr.S.V. Ramakrishna Rao took over as the Dean of Student Affairs on 2<sup>nd</sup> March 2009.

- Smt N. Sreekala took over as the Comptroller on 23<sup>rd</sup> July 2008.

### Meeting of Authorities of the University

- During the period under report nine Board of Management meetings (221 to 229) were held.
- The 84<sup>th</sup> and 85<sup>th</sup> Meetings of Academic Council were held on 12.12.2008 and 30.05.2009 respectively.
- The thirty eighth Research and Extension Advisory Council Meeting was organized on 30.10.2008.

### Teaching

- Four new colleges were established viz., Agricultural College, Jagtial, Karimnagar district; Agricultural College, Rajahmundry, East Godavari district; College of Agricultural Engineering, Madakasira, Anantapur district and College of Food Science & Technology, Pulivendula, Kadapa district.
- During the year 1640 students were admitted into various courses (868 undergraduates, 237 postgraduates, 37 doctoral and 498 diploma programme).
- MABM programme was initiated at S.V. Agricultural College, Tirupati.
- Seven students of B.Tech (Ag.Engg.) secured top ranks in GATE-2009 examination.
- The 41<sup>st</sup> Annual Convocation of the University was held on 26<sup>th</sup> March 2009 at Rajendranagar, Hyderabad. Shri Montek Singh Ahluwalia, Deputy Chairman, Planning Commission, Govt. of India delivered the convocation address.

- The fifth Inter-Polytechnic Sports & Games and Literary meet was held from 19<sup>th</sup> to 21<sup>st</sup> March 2009 at Agricultural Polytechnic, Reddipalli.
- Intercollegiate Sports and Cultural meet for teaching and non-teaching staff of ANGRAU was conducted at Agricultural College, Bapatla on 30<sup>th</sup> and 31<sup>st</sup> January' 2009.

## Research

- The efforts of the ANGRAU scientists over past few years have enabled the release of 24 improved varieties / hybrids of different crops during 2008-09. These new varieties / hybrids of cereals (7 rice, 3 maize, 1 sorghum and 1 finger millet), pulses (1 greengram, 2 blackgram, 2 redgram and 1 soybean) and oilseed & commercial crops (4 groundnut, 1 sesamum and 1 cotton) are hoped to embark upon new era of productivity of these crops in the state during coming years.
- In rice crop, 15 QTLs were identified for seven traits by CIM method governing drought and its components under upland and control conditions at Maruteru.
- N recommendation has been revised to 240 kg N/ha in rice-rice system under red sandy loamy soils of NSP left command area.
- Paddy cum fish culture was found to be promising over poultry-cum-fish culture in obtaining higher profits.
- Intercropping of Silver oak + Rajmash, Silver oak + Pineapple, Silver oak + Niger and Teak + *ragi*/niger was found to be more remunerative.
- Hexaconazole @ 2 ml/lit was found to be effective against stem rot disease in rice.
- Highest grain yield of maize (4363 kg/ha) was recorded with plots which received 150% RDF with 50% N through *insitu* green manuring (Daincha) to the preceding *kharif* rice crop.
- Among the different cropping sequences studied at Nandyal, foxtail millet in *kharif* followed by *bhendi* in *rabi* resulted highest net monetary returns.
- Wilt resistant, short duration promising castor hybrid PCH-111 developed at Palem suitable for *kharif* and *rabi* under rainfed and irrigated conditions with yield superiority of 22 per cent over GCH 4 was in second year of minikit testing.
- Groundnut variety Kadiri Harithandhra (K-1319) was identified for release at National level for *rabi* season. Its pod yield ranged from 35-40 q/ha, with a duration of 120 days, oil content of 48% and field tolerance to foliar diseases and thrips
- Groundnut pod yield (1633 kg/ha) was highest with 10mm depth on every 3<sup>rd</sup> day through surface drip method. The total quantity of irrigation water given in this treatment was 330 mm as against 600 mm in check basin method of irrigation.
- Vermicompost was successfully prepared from uprooted cotton stalks which contained 1.12% N, 0.93% P & 0.12% K in addition to micronutrients like copper (270 ppm), Iron (2791 ppm), Manganese (366 ppm).
- Farmers growing Bt cotton recorded 44.17 per cent more yield, realized 64.70 per cent more gross returns and 302 per cent more net returns due to use of Bt technology.

- Spinosad @ 4 ppm/kg was found to be effective against storage pests of maize with no insect damage and high germinability (93%) and vigour compared to control where insect damage was 7.86% upto six months of storage.
- The Department of Foods & Nutrition, College of Home Science, Hyderabad obtained FPO License under the DBT-ICAR funded project entitled “Establishment of Rural Enterprise for Tomato Products by Women for Food and Nutrition Security”.
- Under mass communication measures, 502 Press Notes, 225 Popular Articles, 322 TV coverages, 229 Radio Scripts and 152 Publications were brought out.
- Phone-in-live TV programme *Rythunestham* on Doordarshan and bi-weekly programme *Annadata Velugubata* on ETV were presented on different topics in agriculture and related fields.
- The Farmers Call Centre attended to 5958 phone calls and answered farmers questions on crop production, crop protection and related issues.

### Extension

- Under technology assessment and refinement, 329 technologies were assessed under field conditions.
- In an effort to diagnosis the field problems, 1413 diagnostic visits by DAATTC and KVK scientist alone and 772 visits along with other scientists and officers were under taken.
- The DAATTCs and KVKs conducted training programmes for the extension personnel (92), farmers (707) and NGOs (26) respectively on various farming aspects.
- To enlighten the farmers on new farming techniques, 218 method demonstrations were conducted.
- Extension units conducted 370 group discussions on various farm problems and issues.
- With a view to highlight the improved package of practices 579 field days were organized for the benefit of farmers, extension personnel, NGOs and input agencies.

### Awards

- The University was bestowed with the Sardar Patel Outstanding ICAR Institute Award for the year 2007 for its outstanding contribution in Agricultural Research, Education and Extension services in the country. Dr.P. Raghava Reddy, Vice-Chancellor received the award on 16<sup>th</sup> July 2008 during the ICAR foundation day celebrations at New Delhi.
- Dr.C. Subba Reddy, Associate Dean, College of Food Science & Technology, Bapatla and Dr. A. Sarada Devi, Associate Dean, College of Home Science, Saifabad, Hyderabad were honoured with the state best teacher awards on the eve of Teachers day on 5<sup>th</sup> September 2008.
- Mrs. M. Nirvikalpa M.Sc. and M.S.Nikhath Sultan B.Sc. received first and second prizes at the national level competition held by Birla white cement for the best designing of health resorts and meditation centers.
- Dr.K. Aparna, Assistant Professor, Department of Foods & Nutrition, College of Home Science was bestowed with the K.G. Naidu Medical Trust Award in

Therapeutic Nutrition for the year 2008 at the 41<sup>st</sup> Annual National Conference of Indian Diabetic Association held from 5<sup>th</sup> to 6<sup>th</sup> December 2008 at National Institute of Nutrition, Hyderabad.

### **Other Events**

- The Dean of Agriculture participated in the National Core Group and the Conveners & Members – Secretaries of the 18 Broad Subject Area Committees constituted by the ICAR for restructuring of Masters and Doctorate Course Curricula and Syllabi held under Chairmanship of Dr.J.C. Katyal, Vice-Chancellor, CCSHAU on 23<sup>rd</sup> and 24<sup>th</sup> June 2008 at NASC Complex, New Delhi.
- Sri N. Raghuvveera Reddy, Hon'ble Minister for Agriculture inaugurated Agricultural Research Station, Nathnaipally and laid the Foundation Stone for Office building on 11<sup>th</sup> June 2008.
- Scientists from the Research Stations and KVKs of the University participated in the orientation programme on district Agro-Advisories along with district level officers from Department of Agriculture in the one day orientation programme organized by IMD on 23<sup>rd</sup> June 2008 at University Auditorium, Rajendranagar, Hyderabad.
- Platinum Jubilee Celebrations of RARS, Warangal were organized on 8<sup>th</sup> July 2008. Sri N. Raghuvveera Reddy, Hon'ble Minister for Agriculture inaugurated the Office Buildings, Farmers Hostel and Seminar Hall.

- Demonstration of paddy transplanters by different companies was organized 21<sup>st</sup> July 2008 at RARS, Maruteru. Hon'ble Minister of Agriculture Sri N. Raghuvveera Reddy was present on the occasion.
- Centenary celebration were organized at RARS, Nandyal on 21<sup>st</sup> and 22<sup>nd</sup> January 2009. Dr.P. Raghava Reddy, Vice-Chancellor, ANGRAU presided over the celebrations.
- Diamond Jubilee Building at Agricultural College, Rajendranagar Campus, Hyderabad was inaugurated by Hon'ble Deputy Director General, ICAR, New Delhi on 4<sup>th</sup> April 2009.

### **International programmes**

- Nineteen scientists / teachers participated in various international conferences / workshops and training programmes.
- Dignitaries from 17 universities / institutes from USA, UK, New Zealand, Germany, Nigeria, and Canada visited ANGRAU and discussed prospects for mutual collaboration with the University.

### **Foreign Tours**

The Hon'ble Members of Board of Management, ANGRAU visited Australia and New Zealand on a study tour accompanied by Dr. V. Adinarayana, ADR (Hq.) and Dr. K. Balaswamy, Principal Scientist (Agronomy), Rajendranagar from 22<sup>nd</sup> September to 7<sup>th</sup> October 2008.