



# Sorghum

## Newsletter



Directorate of Sorghum Research, Rajendranagar, Hyderabad. 500 030.

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### Visitors from abroad

Dr. John Carman, Professor (Plant Genetics), Utah State University, USA and Dr. Andrew Borrell, Centre leader of the Queensland Government's hermitage research facility, Australia, visited DSR on 18 December, 2012. Dr. JV Patil,



Director, DSR had detailed discussions with Dr. Carman about the importance of apomixis and its present status in sorghum. He emphasized the need of working on drought

### समाचार सारांश

**पादप कार्यिकी पर राष्ट्रीय संगोष्ठी** : ज्वार अनुसंधान निदेशालय, तिलहन अनुसंधान निदेशालय, चावल अनुसंधान निदेशालय, केंद्रीय बारानी कृषि अनुसंधान संस्थान तथा द प्लांट फिजियोलॉजी क्लब के सहयोग से पादप कार्यिकी विभाग, आचार्य. एन जी रंगा कृषि विश्वविद्यालय, हैदराबाद तथा इंडियन सोसाइटी ऑफ प्लांट फिजियोलॉजी, नई दिल्ली के संयुक्त तत्वावधान में 12-14 दिसंबर, 2012 को दौरान *फिजियोलॉजिकल एंड मॉलिक्युलर अप्रोचेस फॉर डेवेलपमेंट ऑफ क्लाइमेट रेसिलिएंट क्रॉप* पर आ.एन.जी.रं.कृ.वि.वि., हैदराबाद में राष्ट्रीय संगोष्ठी का आयोजन किया गया। इसमें राष्ट्रीय तथा अंतर्राष्ट्रीय संगठनों से 350 प्रतिनिधियों ने भाग लिया। डॉ. जे वी पाटील, निदेशक, ज्वा.अनु.नि. दो तकनीकी सत्रों के अध्यक्ष तथा डॉ. एच एस तलवार सह-अध्यक्ष थे।

**भाकृअनुप - कृषि में महिला दिवस** : ज्वार अनुसंधान निदेशालय ने भाकृअनुप - कृषि में महिला दिवस के अवसर पर 7 दिसंबर 2012 को स्वास्थ्य सत्र का आयोजन किया। डॉ. पी राव, ऑर्थोपेडिक शल्य चिकित्सक, यशोदा अस्पताल, हैदराबाद ने हड्डियों से संबंधित एक सामान्य रोग *ऑस्टियोपॉरोसिस* पर व्याख्यान दिया।

**ज्वार स्टाल** : आकोला में 26-30 दिसंबर 2012 को दौरान आयोजित राज्य स्तर की एक बड़ी प्रदर्शनी, *एग्रो टेक 12* में निदेशालय द्वारा लगाए गए ज्वार खद्य के स्टाल को अभूतपूर्व प्रतिक्रिया मिली। कृषक, वैज्ञानिक, कृषि अधिकारी, प्रगतिशील कृषक, प्रक्षेत्र महिला समुदाय, गैर-सरकारी संगठन शामिल एक लाख से ज्यादा आगंतुकों ने उक्त स्टाल का दौरा किया। इस स्टाल का समन्वय तथा प्रबंधन श्री प्रमोद कुमार, तकनीकी अधिकारी, ज्वा.अनु.नि. ने किया।

**डॉ. एन्ड्रू बॉरेल का व्याख्यान** : डॉ. एन्ड्रू बॉरेल, किंग्सलैंड गवर्नमेंट्स हेमिटेज रिसर्च फेसिलिटी, ए सेंटर ऑफ एक्सलेंस फॉर क्रॉप इंप्रूवमेंट इन ड्राइ एनविरॉनमेंट के केंद्र प्रमुख ने 17 दिसंबर 2012 को निदेशालय में *फिजियोलॉजिकल एंड मॉलिक्युलर आस्पेक्ट्स ऑफ ड्राई एडाप्टेशन इन सिरियल्स* : लिकिंग कैनापी, वाटर एंड नाइट्रोजन डायनामिक्स विषय पर व्याख्यान दिया।

**इन्सिंप अनुवीक्षण दल का महाराष्ट्र दौरा** : महाराष्ट्र के सोलापुर, अहमदनगर तथा पुणे जिलों में 28 दिसंबर 2012 से 01 जनवरी 2013 के दौरान गहन कव्हन ऊन्नयन के द्वारा पोषण सुरक्षा हेतु पहल नामक (इन्सिंप) परियोजना का अनुवीक्षण किया गया। संबंधित जिलों के जिला अधीक्षक कृषि कार्यलयों के स्टाफ के सहयोग से डॉ. वी आर भागवत, ज्वा.अनु.नि., हैदराबाद ने इन क्षेत्रों का सर्वेक्षण किया।

**पदोन्नति** : कैरियर ऊन्नयन योजना के अंतर्गत कृषि वैज्ञानिक चयन मंडल की संस्तुति पर डॉ. अई के दास को प्रधान वैज्ञानिक के रूप में पदोन्नत किया गया। डॉ. दास को *हार्दिक बधाई*।

**डॉ. एच एस तलवार को अधिसदस्यता** : पादप कार्यिकी तथा संबंधित विज्ञान में महत्वपूर्ण योगदान के लिए डॉ. एच एस तलवार, प्रधान वैज्ञानिक, ज्वा.अनु.नि. को इंडियन सोसाइटी ऑफ प्लांट फिजियोलॉजी के द्वारा *फेल्लो ऑफ इंडियन सोसाइटी ऑफ प्लांट साइंसेस* की मान्यता प्रदान की गई। डॉ. तलवार को *हार्दिक बधाई*।



**सेवानिवृत्त** : इस निदेशालय में विभिन्न पदों पर कार्य करने के पश्चात श्री टी श्रीधरण, वित्त एवं लेखा अधिकारी अधिवर्षिता पर 31 दिसंबर 2012 को परिषद की सेवाओं से मुक्त हुए। *निदेशालय परिवार उनके खुशहाल जीवन की कामना करता है!*

#### **विशिष्ट आगंतुक**

**डॉ. आर के बंसल, निदेशक, रा.पा.आ.सं.ब्यूरो, नई दिल्ली** ने 13 दिसंबर 12 को निदेशालय का दौरा किया। डॉ जे वी पाटील, निदेशक, ज्वा.अनु.नि. ने उन्हें यहां संचालित वर्तमान अनुसंधान गतिविधियों के संबंध में जानकारी प्रदान की।

#### **अन्य आगंतुक**

विस्तार शिक्षा संस्थान, राजेन्द्रनगर, हैदराबाद से 13 प्रशिक्षार्थियों ने ज्वार अनुसंधान एवं विकास के संबंध में जानकारी प्राप्त करने हेतु 14 दिसंबर 2012 को निदेशालय का दौरा किया। उन्हें ज्वार के वैकल्पिक उपयोग के संबंध में जानकारी प्रदान की गई।

**डॉ के बी आर एस विशारदा द्वारा व्याख्यान** : डॉ. के बी आर एस विशारदा, प्रधान वैज्ञानिक, ज्वा.अनु.नि. ने चावल अनुसंधान निदेशालय, हैदराबाद में 04 दिसंबर 2012 को भाकृअनुप द्वारा मनाए जा रहे *कृषि में महिला दिवस* के अवसर पर प्रक्षेत्र महिलाओं को संबोधित किया।

**डॉ. महेश कुमार**

tolerance in sorghum with Dr. Borrell. The visitors were also taken around the facilities in DSR, including Food lab, Biotech lab and lysimeter. Dr. Patil showed the new rabi cultivars in the field to the visitors and described their adaptability and high yielding traits. Both visitors delivered a seminar at DSR. While Dr. John Carman spoke on "Gene regulation during sexual and apomictic development in immature ovules of sorghum and Boecheera", Dr. Andrew Borrell's talk was on "Physiological and molecular aspects of drought adaptation in cereals: linking canopy, water and nitrogen dynamics". Besides DSR scientists and research staff, scientists from DRR and DOR also attended the seminar. Dr. John Carman was in India to deliver lectures in the training programme on apomixis at Indian Grassland and Fodder Research, Jhansi and visited DSR to discuss about the collaborations on apomixis research in sorghum and Dr. Borrell, who is also an Australian partner of ongoing international collaborative project among ICRISAT-ILRI-QDPI-UQ-DSR funded by ACIAR, Australia visited Hyderabad to participate in the national seminar in plant physiology 2012 held at ANGRAU, Hyderabad.

#### **National seminar on Plant Physiology held**

National seminar on plant physiology on "Physiological and molecular approaches for development of climate resilient crops" was held during 12-14 December, 2012 at Acharya NG Ranga Agricultural University, Hyderabad. This programme was jointly organized by Department of Crop physiology, ANGRAU, Hyderabad and Indian Society of plant physiology, New Delhi in association with Directorate of Sorghum Research (DSR), Directorate of Oilseed Research (DOR), Directorate of Rice Research (DRR), Central Research Institute for Dry Land Agriculture (CRIDA) and the plant physiology club. About 350 delegates from national and international organizations participated in this event. Two technical sessions were chaired by Dr. JV Patil, Director, DSR and co-chaired by Dr. HS Talwar, Pr. Scientist. Dr. Talwar presented a lead paper on "Sorghum: A smart crop to adapt to future climate change scenario". Drs. SS Rao, Pr. Scientist and M Elangovan, Sr. Scientist also participated in this seminar.

#### **Dr. Bansal visits DSR**

Dr. RK Bansal, Director, NBPGR, New Delhi, visited DSR on 13 December, 2012. Dr. JV Patil, Director, DSR described



on the institute's current activities, aspirations and thrust areas with respect to all research matters. Dr. Bansal savoured the novel sorghum foods being popularized by the institute and discussed the initiatives on entrepreneurship development activities.

#### **"Women in Agriculture" day celebrated**

DSR organized a health session on the occasion of ICAR designated "Women in Agriculture" day on 7 Dec, 2012. Dr P. Rao, Orthopedic Surgeon, Yashoda hospital, Hyderabad delivered a lecture on "Osteoporosis- a common ailment related to bones". He also participated in the interactive session on women health.

#### **Annual Review meeting on Britannia project**

Annual review meeting on the progress of NAIP sub-project in collaboration with M/s Britannia Industries Ltd (BIL), Bangalore was held on 6 December, 2012 at DSR. This meeting was chaired by the Dr S V Rao, director In-charge. DSR. Mr. B Prashanth and Mrs Savitri from Britannia group, Dr B Dayakar Rao, PI, DSR, Dr K N Ganapathy, Scientist, DSR and other project staff of DSR participated in the deliberations. The meeting dealt with the progress of the project and future plans. The officials from Britannia also visited the Centre of Excellence to view the activities of sorghum food processing.

#### **Sorghum Stall at "Agro tech 12" Akola**

The sorghum stall, set up by the DSR at "Agro Tech 12" received an unprecedented response. DSR installed a "Sorghum food stall" at "Agro tech 12", the state level mega agricultural show was jointly organized by PDKV, Akola and Department of Agriculture, Maharashtra at Akola during 26 - 30 Dec, 2012. More than one lakh visitors including farmers, scientists, agriculture officers, progressive farmers, farm-women groups from NGOs, visited the stall and shown keen interest in the newly developed sorghum food products. The importance of sorghum as health and nutritious food was explained to the visitors and relevant literature was distributed. There was a heavy demand for sorghum food products sold at the stall. Mr. Promod kumar, Technical Officer, coordinated and managed the stall.

#### **INSIMP monitoring visit - Maharashtra**

Monitoring of Initiative for Nutritional Security through Intensive Millet Promotion (INSIMP) project was undertaken in Solapur, Ahmednagar and Pune districts of Maharashtra from 28 December 2012 to 01 January 2013. Dr. VR Bhagwat, Principal Scientist, DSR, surveyed these



areas in coordination with staff of the State Department of Agriculture from respective districts. In Solapur district total 110 projects on rabi sorghum production technology were



conducted in 55000 ha. and in Ahmednagar district 58 projects were implemented in 29000 ha. Mostly, *Phule Revati*, *Phule Vasudha*, and *Phule Chitra* were grown with improved rabi production technology. Fifteen field trials were organized by the State Department of Agriculture (SDA) in Baramati and Daund taluks were also monitored in Pune district. He also visited one of the food processing units maintained by the progressive farmers at village Ramwadi near Indapur. Logistic support was provided by the Deputy Director, Department of Agriculture, Pune for monitoring this project.

### Promotion



Based on the recommendations of the ASRB **Dr. IK Das**, Senior Scientist (Plant Pathology) was elevated to the post of Principal Scientist through the career advancement scheme. Congratulations to Dr. Das for this accomplishment.

### Recognition

**Dr. HS Talwar**, Principal Scientist, DSR was recognized by the Indian Society of Plant Physiology (ISPP) for his significant contributions to the field of "Plant Physiology and cognate sciences" by admitting him as "Fellow of Indian Society of Plant Sciences". Dr. Talwar received this honour during the national seminar in plant physiology-2012 held during 12-14 December, 2012 at ANGRAU, Hyderabad. DSR Family congratulates him for this achievement.



### Other Visitors

**Trainees from EEI, Hyderabad:** Twenty five trainees from EEI, Rajendranagar Hyderabad, visited DSR on 14 December, 2012 to get exposure about the sorghum research and developments, as a part of their curriculum. Dr. B Dayakar Rao, CPI, NAIP, briefed the visitors with the present sorghum scenario, processing technologies developed and marketed by DSR and future prospects.

**School children:** A total of 53 school children from Janapriya Talent School, Hyderabad along with two teaching faculty visited DSR on 31 December, 2012 as a part of their educational tour. Smt. Vishala AD narrated the research and other activities at food technology and processing unit at DSR. This was followed by field visit to

educate them on the cultivation practices to be followed for sorghum production. The visit was facilitated by Mr. HS Gawali, Technical Officer.

**Farmers:** 35 farmers from Parbhani under HOPE project (ICRISAT) visited DSR on 10 December, 2012 to get an insight on sorghum processing technologies developed by DSR.

**Trainees:** 13 trainees from Dept. of Agriculture, Tamil Nadu visited sorghum food processing lab on 19 December, 2012, as a part of their training on PPP – developing scenario in food processing.

### Invited lecture

**Dr. KBRS Visarada**, Principal Scientist, DSR addressed the farm women groups on the occasion of ICAR celebrations of "Women in Agriculture" held at Directorate of Rice Research, Rajendranagar, Hyderabad on 4 December 2012.

### Superannuation

**Mr. T Sridharan**, who served this institute in various capacities, superannuated from Councils service as Finance and Accounts Officer (FAO) on December 31, 2012. A farewell was offered to him by the institute's recreation club



on 1 January, 2013. Dr. JV Patil, Director, DSR presented him a token memento. DSR staff recollected his services and wished him a very happy, healthy and active retired life.

### MoU on Commercialization of Sorghum food technologies

MoU was signed by DSR and M/ Hope Blessings Enterprises Pvt. Ltd New Delhi, on 5 December, 2012 for licensing the



technology of sorghum based food products. The company would do the production and marketing of Jowar based multi-grain atta and biscuits in major retail stores for a period of two years as detailed in the MoU.



**राजभाषा कार्यान्वयन समिति की बैठक:** राजभाषा कार्यान्वयन संबंधी विभिन्न विषयों पर विचार-विमर्श हेतु डॉ. जे वी पाटील, निदेशक की अध्यक्षता में 22 दिसंबर 2012 को रा.का.स. की 24वीं बैठक का आयोजन किया गया। बैठक में डॉ. जे एस मिश्र, प्रभारी अधिकारी-हिंदी कक्ष (उपाध्यक्ष), डॉ. ए कलैसेकर, प्रभारी अधिकारी-कंप्यूटर एवं वेबसाइट, श्री सरोज कुमार सिंह, प्रशासनिक अधिकारी (सदस्य) तथा डॉ. महेश कुमार, हिंदी अनुवादक (सदस्य-सचिव) उपस्थित थे।

### Meetings (M)/ Workshop (W) Conference (C) Training (T) attended

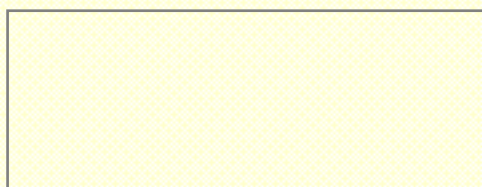
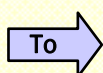
S. No	Name of the Official	Participated in	Type	Venue	Dates
1	Sunil Gomashe	Training programme at Winter School on "Biotechnological approaches for adaptation to climate change"	T	NRCPB, New Delhi	4-24 Dec, 2012.
2	JV Patil, SS Rao, HS Talwar & M Elangovan.	National seminar on plant physiology on "physiological and molecular approaches for development of climate resilient crops"	S	ANGRAU, Hyderabad	12-14 Dec, 2012
3	B. Venkatesh Bhat	"National training programme on Apomixis: components, importance and utilization/exploitation"	T	IGFRI, Jhansi	13-15 Dec, 2012
4	Mahesh Kumar	Meeting of TOLIC Hyderabad-Secunderabad	M	CRIDA, Hyderabad	20 Dec, 2012

### Thought for the month

*The quality of a person's life is in direct proportion to their commitment to excellence, regardless of their chosen field of endeavor"*

- Vincent Lombardi

### Printed Matter / Book Post



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