

# The 46<sup>th</sup> Annual Convention of ISAE and International Symposium on Grain Storage

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February 27-29, 2012

*Venue:*

**G.B. Pant University of Agriculture and Technology  
Pantnagar, Uttarakhand, India**

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*Organized by*

**Indian Society of Agricultural Engineers  
([www.isae.in](http://www.isae.in))**



**G.B. Pant University of Agriculture and Technology  
Pantnagar ([www.gbpuat.ac.net.in](http://www.gbpuat.ac.net.in))**



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**Agricultural Machinery Manufacturers  
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**American Society of Agricultural and  
Biological Engineers**



**Canadian Society for Bioengineers**



# ISAE Convention

By 2030, two billion people will be added to the present world population. Growing population of world requires more food, water, energy and goods. Agricultural engineers have to play a significant role of ensuring the necessities for life such as safe and sufficient food and water supply, timber and fibre for shelter and clothing, plentiful and renewable energy resources and a healthy environment in which to live. It has been increasingly realized that by 2030 India has to increase its food grain production at about 4% annual growth rate. The average productivity has to be increased from the present level of 1750 kg/ha to 2900 kg/ha. Agricultural engineers are responsible for not only high production of agricultural produce but to provide it to the consumers by maintaining nutritional value during entire food chain. This involves transportation, packaging, storage, processing, etc. Every step adds value to the food and therefore, every effort should be made to reduce losses during entire food chain.

The ISAE convention is convened to bring all stake holders of food chain and environmental concern at a single platform where they will inform, discuss, interact, brain storm the issues concerning all aspects related to Agricultural Engineering. A session on industry related issues will be the highlight of the convention. Four concurrent sessions in following areas will be held:

- Farm Machinery and Power
- Soil and Water Engineering
- Processing, Dairy and Food Engineering
- Energy in Agriculture and Other Areas

This event will be coinciding with 50 years of Agricultural Engineering at Pantnagar. This university being the first agricultural university in India to blend Technology with Agriculture, having been eulogized by Nobel Laureate Dr. Norman E. Borlaug as the 'Harbinger of Green Revolution' in the country, and having been adjudged the best State Agricultural University as early as 1997, is a very appropriate venue for ISAE convention.

## **International Symposium on GRAIN STORAGE**

Grain storage has been practiced by human civilization since its beginning. In India, grain procurement, storage and distribution is done primarily by Food Corporation of India. At present, only 30% of the total food grain production is handled by organized sector for storage management. The storage capacity available with FCI is around 28 million metric tonnes (which includes hired capacity from CWC and SWC's); in comparison to the present requirement of approximately 60 - 70 million metric tonnes. There is an urgent need to enhance the country's grain storage infrastructure through the involvement of private sector. About 15 million tonnes of new storage capacity is being created through the participation of private entrepreneurs under the Private Entrepreneurs Guarantee Scheme run by the Food Corporation of India (FCI). A major part of it will be under bag storage (13 million tonnes) and rest will be in bulk storage. With a view to minimize storage and transit losses and to introduce modern technology, the Government had approved the National Policy on Bulk Handling, Storage and Transportation of Food grains in June, 2000.

Grameen Bhandaran Yojana, a capital investment subsidy scheme for construction / renovation of rural godowns, was introduced in 2001-2002 and has been extended up to 2012. The

main objectives of the scheme include creation of scientific storage capacity with allied facilities in rural areas to meet the requirements of farmers for storing farm produce, processed farm produce, agricultural inputs and prevention of distress sale immediately after harvest. Another development to encourage storage of grains by producers is the enactment of Warehousing (Development and Regulation) Act, 2007. Under this the negotiable warehouse receipts issued by warehouses registered under the Act enjoy the fiduciary trust of the depositors and the banks. The grain could be traded or pledged for loan by using negotiable warehouse receipt issued by a registered warehouse.

To meet the growing requirements of storage facilities in the country, The Department of Consumer Affairs, Food and Public Distribution has decided to create a Special Purpose Vehicle (SPV) to attract private sector participation in the creation of bulk storage facilities and act as a think tank to undertake studies on bulk handling and transportation requirements for food grains and creation of cold chain infrastructure. The Central Warehousing Corporation (CWC), Container Corporation of India (CONCOR) and the National Horticulture Board will be the partners of the proposed SPV. At the same time, the Planning Commission has initiated a comprehensive study to suggest measures to create modern food grains storage infrastructure, under the National Policy for Handling and Transportation of Food Grains.

Since about 70% of grain is stored in unorganized sector including stored by farmers for their own consumption and this sector incurs losses to the extent of 10%. Storage losses constitute a major share of food grain loss in post production operations. The grains being biological materials need protection from temperature, humidity, impurities, insect pests etc. for better storability for short as well as long term buffer stock storage. Since it is a universal problem we have a lot to learn and gain from international experience and bring out guidelines for research and development departments and also for policy makers to distribute the incentives evenly among the small as well as big players. Looking at the importance of this topic to India and also to the world, Indian Society of Agricultural Engineers has decided to organize an International Symposium on “Grain Storage” during the 46<sup>th</sup> Annual Convention.

### ***Important Deadlines***

Abstract submission	:	October 31, 2011
Letter of acceptance to authors	:	November 30, 2011
Submission of full length paper	:	December 31, 2011
Final manuscript submission to conveners by concern Technical Directors	:	January 15, 2012

**Official Language:** English

### **Registration**

<b>Participant</b>	<b>Registration Fee (Indian Rupees)</b>
ISAE members	4000
Non-members	5000
Companion	2000
Students	1000

## Accommodation Reservation

Accommodation reservation will be provided on payment basis. The rooms will be booked only on advance payment. The charges for accommodation in hotels in Rudrapur are as below:

Name of Hotel	Tariff (Indian Rupees)		
	Type of Room	Single	Double
Uday Residency	Standard	1350.00	1750.00
	Premium	1550.00	1950.00
	Suite (3 bed occ.)	3500.00	3500.00
Sobti Continental	Club Class	2250.00	2700.00
	Executive Class	3150.00	3600.00
	Elite Class	4500.00	4500.00
	Suites	5400.00	5400.00
Sonia. Pvt. Ltd.	Presidential Suites	4300.00	4750.00
	Executive Suite	2550.00	2850.00
	Royale Room	2200.00	2500.00
	Super Deluxe	1850.00	2450.00
	Deluxe	1550.00	1800.00
Rosewood Hotel	Studio	1499.00	3500.00
	Deluxe Studio	1799.00	4000.00
	One Bedroom	2499.00	5500.00
	Deluxe One Bedroom	2999.00	5500.00
Radisson Hotel	Superior Room	5500.00	6500.00
Ark Hotel	Standard	2500.00	3000.00
	Executive	3000.00	3500.00
	Deluxe Executive	4000.00	4500.00
	President Suite		6500.00
Rajshri Hotel	Club Suite	1000.00	2250.00
	Club Select	700.00	1200.00
	Club Standard	500.00	950.00
G. Nanak Hotel	Maharaja	1000.00	1500.00
	Executive	700.00	1300.00
	Economy	500.00	1100.00

**Note:** 30 - 40 % discount is available in all the above mentioned hotels for the delegates / members of ISAE who will confirm their participation by 31.12.2011.

## Mode of Payment

The participant can pay the registration fee and accommodation charges through demand draft or electronic transfer using the following details:

Bank Name : Punjab National Bank  
Branch : Pantnagar-23145, Uttarakhand  
Account No. : 4446000100039900  
A/C Name : ISAE Convention - 2012  
IFS Code : PUNB0444600  
SWIFT Code : PUNBINBBKAS  
MICR Code : 263024252

**Conference website:** <http://www.gbpuat.ac.in/46isaepant2012>

## SCIENTIFIC SESSIONS AND CALL FOR PAPERS

Scientific sessions are planned which include lead papers as well as key note addresses, by national and international authorities on the subjects. Original research will be presented into two categories, namely, oral and poster paper presentation. Soft copies of abstract of the paper(s) shall be submitted to respective Technical Directors by October 31, 2011. An abstract should be approximately 200-300 words in length, single spacing, MS Word document, Times New Roman Font with 12 Font size.

Abstract contains title of the paper below which name(s) of author(s) with presenting and corresponding author underlined. The text of abstract should have a brief introduction, objective of the study, materials and methods, results and conclusions. Indicate paper for oral or poster presentation. Papers received for oral presentation will be accepted either as oral or poster paper presentation which will be decided by respective Technical Directors. After receiving the acceptance, full length paper of oral presentation should be sent both on CD and by e-mail. Consult detailed guidelines on the web site. Souvenir along-with CD will be distributed during registration. Contact details of Technical Directors are as below.

<p><b>Processing, Dairy &amp; Food Engineering</b> Dr. R. Viswanathan Professor and Head, Dept. of Food &amp; Agricultural Process Engineering Tamil Nadu Agricultural University Coimbatore 641003, Tamil Nadu drrviswanathan@gmail.com +91 4226611272; +91 9443129711</p> <p><b>Farm Machinery and Power</b> Dr. V.K. Tewari Professor, Dept. of Agricultural and Food Engineering Indian Institute of Technology Kharagpur- 721302, West Bengal prof.vktewari@gmail.com +91 9434014171</p>	<p><b>Energy in Agriculture and Other Areas</b> Dr. T.K. Bhattacharya Professor &amp; Head, Dept. Of Farm Machinery and Power Engineering, College of Technology G.B. Pant University of Agriculture &amp; Technology, Pantnagar- 263145, Uttarakhand Tkb_183@rediffmail.com;+919412419867</p> <p><b>Soil and Water Engineering</b> Dr. S.M.Taley Professor, Dept. of Agricultural Engineering and Director, Agroecology &amp; Environment Centre, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola - 444 104, Maharashtra smtaley@rediffmail.com;+91 9822723027</p>
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## THE PANTNAGAR UNIVERSITY

The main Campus of the GB Pant University of Agriculture and Technology is located at Pantnagar in the *Tarai* area of the Indian Central Himalaya, the State of Uttarakhand. Pantnagar can be approached by surface as well as air transport. Climate in the month of February is cool and pleasant and the temperature may vary from 10 to 25°C.

### How to Reach Pantnagar/Rudrapur

Pantnagar is about 250 km from Delhi, 360 km from Lucknow, 90 km from Moradabad, 75 km from Bareilly and 65 km from Nainital by road. It is connected by the Delhi – Nainital National Highway and the Bareilly – Nainital Highway. A large number of state and interstate buses ply on these routes. Pantnagar Railway Station (Nagla), on the Lucknow – Bareilly – Lalkuan section of North Eastern Railways, is about 4 km east of the University Administrative Building. Haldi Road Railway station, on the Delhi – Rampur – Kathgodam section of Northern and North Eastern railways, is about 3 km west of the University Administrative Building.

From **Delhi** board the Ranikhet Express and get down at Rudrapur or Haldi Road Station or board Sampark Kranti to get down at Rudrapur or Lalkuan Station. The University buses will be available at the Railway stations for internal transport. Else, one can travel by any bus plying towards Haldwani via Moradabad, Rampur and Rudrapur, and get down at Rudrapur from where local transport is available for Pantnagar (Phoolbagh).

From **Lucknow** board the Nainital Express and get down at Pantnagar Station where University bus will be available for internal transport. Else, one can travel by any bus plying towards Haldwani via Bareilly and get down at Nagla, near Pantnagar Station.

From **Agra** may board the Kumaon Express and get down at Pantnagar Station.

From **east** may reach Rudrapur or Haldi Road Station by Howarah–Kathgodam Express.

The **airport** at Pantnagar is situated 2 km west of the Administrative Building of the University. Kingfisher Airline ([www.flykingfisher.com](http://www.flykingfisher.com)) operates a daily flight Delhi-Pantnagar-Delhi.

## SPONSORSHIP AND ADVERTISEMENT

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| 1. Back cover page (colour) 8.5"X11" | : Rs 40,000 |
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| 4. Full page (colour) 8.5"X11"       | : Rs 25,000 |
| 5. Full page (B/W) 8.5"X11"          | : Rs 20,000 |
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Mr. A. R. Wagh, Regional Manager Indian Subcontinent & Middle East, GrainPro Inc., USA  
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Dr. R.T. Patil, CIAE, Bhopal, M.P. (Email: ramabhau@yahoo.com), Technical Secretary, IAC.

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**The announcement regarding ISAE award 2011-12 is available on ISAE website ([www.isae.in](http://www.isae.in)). Please apply before 30<sup>th</sup> September 2011.**

## Important Contacts

<p><b>Organizing Secretary</b></p> <p>Dr. Devendra Kumar Professor &amp; Head, Soil &amp; Water Conservation Engineering College of Technology G.B. Pant University of Agriculture &amp; Technology Pantnagar- 263145, Uttarakhand, India Tel.: +91 5944 233306 (0); Fax: 233338 Mobile:+91 983716 6135 e-mail: isaepantnagar12@gmail.com</p>	<p><b>Technical Secretary</b></p> <p>Dr.T.K. Bhattacharya Professor &amp; Head Farm Machinery &amp; Power Engineering College of Technology G.B. Pant University of Agriculture &amp; Technology, Pantnagar- 263145, Uttarakhand,India Tel.: +91 5944 233380 (0); Fax: 233338 e-mail: tkb_183@rediffmail.com Mobile:+91 9412419867</p>
<p><b>Public Relation Officer</b></p> <p>Dr. Pravendra Kumar Asstt. Professor Soil &amp; Water Conservation Engineering College of Technology G.B. Pant University of Agriculture &amp; Technology Pantnagar- 263145, Uttarakhand, India Mobile:+91 9719192391 e-mail: isaepantnagar12@gmail.com</p>	<p><b>Chairman Boarding &amp; Lodging</b></p> <p>Dr. R.K. Pandey Professor Post Harvest, Process and Food Engineering College of Technology GB Pant University of Agriculture &amp; Technology Pantnagar -263145, Uttarakhand, India Mobile:+919412959119 e-mail: rkpandey53@gmail.com</p>

## REGISTRATION/ACCOMMODATION REQUEST FORM

46<sup>th</sup> ISAE Annual Convention and International Symposium on Grain Storage  
27-29 February, 2012

G B Pant University of Agriculture & Technology, Pantnagar,  
Uttarakhand, India

Name : \_\_\_\_\_  
Designation : \_\_\_\_\_  
Sex : \_\_\_\_\_ Age: \_\_\_\_\_  
Nationality : \_\_\_\_\_  
Member/Non-member: Membership No. \_\_\_\_\_  
Mailing Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Email : \_\_\_\_\_

Tel.: \_\_\_\_\_ Mob: \_\_\_\_\_ Fax: \_\_\_\_\_

Number of registered accompanying persons: 1 / 2 / none

### Registration fee details

Amount : \_\_\_\_\_

DD. No. & Date : \_\_\_\_\_

Accommodation : \_\_\_\_\_

### Accommodation charges details

Amount : \_\_\_\_\_

DD. No. & Date : \_\_\_\_\_

**Place:**

**Signature:**

**Date:**

### Please send it to:

Dr. Devendra Kumar, Organizing Secretary  
Professor & Head, Soil & Water Conservation Engineering  
G. B. Pant University of Agriculture & Technology  
Pantnagar - 263145, Uttarakhand, India

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