

**46th Annual Convention of
Indian Society of Agricultural Engineers (ISAE)
and
International Symposium
on
Grain Storage**

February 27-29, 2012

at
Pantnagar – 263 145 (Uttarakhand), India

Organized by



Indian Society of Agricultural Engineers
(www.isae.in)

and



G. B. Pant University of Agriculture and Technology
Pantnagar (www.gbpuat.ac.in)

Co-sponsored by

Agricultural Machinery Manufacturers Association - India



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 section 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 a policy 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 world Indian Society of Agricultural Engineers has decided to organize an International Symposium on "Grain Storage" during the 46th 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

The following charges shall be applicable for the registration of delegates.

Participant	Registration fee (Indian Rupees)
ISAE members	4000
Non-members	5000
Accompanying Person (each)	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		
	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

- ❖ 30 - 40 % discount is available in all the above mentioned hotels for the delegates /members of ISAE who will attend the ISAE Convention.
- ❖ The delegates who confirm their participation by 31-12-2011 shall avail the above discount of 30-40 % other wise they have to pay the actual hotel tariff.

Mode of Payment

The participant can pay the registration fee and accommodation charges through demand draft/electronic transfer.

1	Bank Name	Punjab National Bank
2	Branch	Pantnagar
3	Account No.	4446000100039900
4	A/C Name	ISAE Convention - 2012
5	IFS Code	PUNB0444600
6	SWIFT Code	PUNBINBBKAS
7	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 in to 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 The 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. Oral Presentation received will be accepted either as oral or poster paper presentation which will be decided by respective Technical Director. 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.

Processing, Dairy & Food Engineering (Session I) Dr. R. Viswanathan Professor and Head, Dept. of Food & Agricultural Process Engineering Tamil Nadu Agricultural University Coimbatore 641003, Tamil Nadu drrviswanathan@gmail.com +91 4226611272; +91 9443129711	Energy in Agriculture and Other Areas (Session II) Dr. T.K. Bhattacharya Professor & Head, Dept. of Farm Machinery & Power Engineering, College of Technology G.B. Pant University of Agriculture & Technology, Pantnagar- 263145, Uttarakhand tkb_183@rediffmail.com +919412419867
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<p>Farm Machinery and Power (Session III) Dr. V.K. Tewari Professor, Dept. of Agricultural and Food Engineering Indian Institute of Technology Kharagpur- 721302, West Bengal</p> <p>prof.vktewari@gmail.com +91 9434014171</p>	<p>Soil and Water Engineering (Session IV) Dr. S.M.Taley Professor, Dept. of Agricultural Engineering & Director, Agroecology & Environment Centre, Dr. Panjabrao Deshmukh Agricultural University, Akola – 444 104, Maharashtra</p> <p>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. Rail line is connected from New Delhi, Lucknow, and Bareilly. Climate in the month of February is cool and pleasant and the temperature may vary from 10 to 25⁰C.

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.

- Persons coming from **Delhi** may 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, they 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).
- Persons coming from **Lucknow** may board the Nainital Express and get down at Pantnagar Station where University bus will be available for internal transport. Else, they can travel by any bus plying towards Haldwani via Bareilly and get down at Nagla, near Pantnagar Station.
- Persons coming from **Agra** may board the Kumaon Express and get down at Pantnagar Station.
- Persons from **east** may reach Rudrapur or Haldi Road Station by Howrah – Kathgodam Express (Bagh Express).

The **airport** at Pantnagar is situated 2 km west of the Administrative building of the University. Kingfisher airline (www.flykingfisher.com) operates a daily flight Delhi-Pantnagar-Delhi.

EXCURSION

There are several worth seeing places nearby the Pantnagar University. The hill station of Nainital (60 km from University) offers several places of interest. The most popular landmark in Nainital is the **Naini Lake**. This lake offers enchanting beauty and tourists can enjoy boat rides. Other must see place in Nainital is the **Naina Peak**. It offers breath-taking views of the Nainital Valley and the snow-capped Himalayas. There is an observatory, which offers beautiful night view of the moon. From Nainital one can also visit the famous **Saat Tal, Bhim Tal** and the **Naukuchiya Tal**. Saat Tal is a cluster of seven small lakes and is 21 km away from Nainital. Bhim Tal is located at a distance of 23 km from Nainital and is the largest lake around Nainital. The Naukuchiya Tal, which is located 27 km from Nainital, is another place worth visiting. It derives its name from the nine corners of the Lake. Other places of interest around Nainital include **Khupratal (12 km), Kainchi Dham (20 km), Kilbury (12 km), Corbet National Park (120 km)** and famous **Taj Mahal** at Agra (260 km).

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

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Designation : _____
Sex : _____ Age: _____
Nationality : _____
Member/Non-member: _____
Membership No. : _____
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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:

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