

**57th Annual Convention of
Indian Society of Agricultural Engineers (ISAE)
on
Agri-Food Systems' Transformation through
Engineering Innovations**

**6-8 November,
2023**

**University of Agricultural Sciences,
Raichur**



**International Symposium
on
Engineering Interventions for Making Millets a Global Food**



Jointly organised by

**Indian Society of Agricultural Engineers
New Delhi
&
University of Agricultural Sciences
Raichur, Karnataka (India)**



isaecaer2023@uasraichur.edu.in
<https://www.uasraichur.edu.in>

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS (ISAE)

The Indian Society of Agricultural Engineers (ISAE) was established in 1960 with an objective to strengthen the profession by bringing together **Agricultural Engineers** of the country on one vibrant platform. The society has played a vital role in developing well defined linkages between agriculture sector and industry and has facilitated in broader participation of its members in professional activities so as to give a boost to the agricultural production and post-production sectors. The Agricultural Engineers have been immensely contributing in the field of farm mechanization, irrigation, drainage, soil and water conservation, watershed management, flood and water control systems, command area development, post-harvest engineering and technology, agro-food processing and value addition, managing agricultural structures, environment control, greenhouse technology, cold storage, renewable energy generation and other domains directly associated to agricultural productivity and farmers' income.

UNIVERSITY OF AGRICULTURAL SCIENCES, RAICHUR (UASR)

The University of Agricultural Sciences, Raichur was started during the year 2008-09. It covers, the Kalyana Karnataka region (Northern Karnataka) comprising Bidar, Kalaburgi, Yadgir, Raichur, Bellary, Vijayanagar and Koppal districts is an agrarian region. The University spreads over three Agro-climatic Zones, viz., North Eastern Dry Zone, North Eastern Transitional Zone and Northern Dry Zone with an irrigation potential of 12 lakh hectares through Tungabhadra, Krishna, Karanja, Mullamari, Hirehalla, Bennethore and other irrigation projects, spanning 44.96 lakh hectares accounting 33.60 per cent of the total geographical area of the state, of which nearly 68 per cent is under cultivation. This region has a unique combination of medium (32.42%) and large (36.69%) farmers and has rich natural resources especially for agricultural development. There are 13 Agricultural Research Stations located in diverse agro-ecosystems operating with 19 AICRPs and about 56 adhoc projects funded by the national and international agencies viz., CIMMYT, REWARD, NAHEP, BARC, ICAR, DST, DBT, GoK and RKVY.

The ultimate aim of the University is to enhance the net income of the farm on sustainable basis by taking all the activities on the farm into consideration and by integrating them while treating the whole farm as one unit. Its activities through seven ICAR-Krishi Vigyan Kendras (KVKs) and six Agricultural Extension Education Centers (AEECs) helping the farmers in adopting latest farming technologies for making them prosperous and productive.

Raichur is also privileged to have the oldest establishment for agricultural research. In 1932, an Agricultural Research Station was established by the then Nizam's Government of Hyderabad with a mandate to carryout research on dryland farming. Agricultural Engineering Institute (AEI) was added to Raichur campus during 1969 to offer Diploma course in Agricultural Engineering which was upgraded to the status of College of Agricultural Engineering to offer B.Tech. (Ag. Engg.) degree programme in 1987. Colleges of Agriculture were started at Raichur, Bheemarayanagudi, Kalaburgi, Gangavathi and Hagari in 1984, 2000, 2011, 2020 and 2022, respectively. The Master's and Doctoral degree programmes offered in 15 departments (12 in Agriculture and 3 in Agricultural Engineering) completing all the necessities of Teaching, Research and Extension activities.

The UAS Raichur has registered significant growth during last decade reaching newer heights in agricultural education, research and extension. The University has established state-of-art facilities viz., Pesticide Residue and Food Quality Analysis Laboratory (NABL Accredited), Millet Processing Centre, Irrigation and Drainage System, Organic Farming Institute, Centre for Nanotechnology, eSAP, Centre for Agro Climatic Studies, Bio Control Unit, Bakery Unit, Fruits and Vegetable Processing Unit, Green Energy Park, Farm Machinery Testing Centre, Bio Fuel Park, IFS Unit, Common Incubation Centre, Aseptic Processing and Packaging Unit, Fortified Rice Kernel Unit, Ripening Chamber, Custom Hiring Centre, Seed Unit etc.

COLLEGE OF AGRICULTURAL ENGINEERING, RAICHUR (CAER)

The College of Agricultural Engineering, Raichur is one of the constituent colleges of University of Agricultural Sciences (UAS), Raichur. The college is an **ISO 9001:2015** certified institution for its quality education and human resource development. The ultimate aim is to develop and popularize improved and efficient farm machines and energy saving equipment, adoption of improved irrigation, drainage and water conservation techniques, processing and value addition of agricultural and horticultural produce, to reduce cost of production and increase the profit for enhancing the socio-economic status of farmers. So far, 1200 students have graduated from this college with 100% employment out of which, about 55 have become self - entrepreneurs viz., 18 in Farm mechanization, 20 in Irrigation, 12 in Processing sectors and 05 started their own NGO. The Postgraduate programmes leading to M.Tech. and Doctoral degrees with specialization in Farm Machinery and Power Engineering, Soil and Water Engineering and Processing and Food Engineering are being offered and about 210 students have obtained degree from this college.

The college is operating five ICAR-AICRP projects viz., UAE, FIM, PHET, EAAI, PEASEM, four RKVY, three externally funded adhoc projects and six revolving fund projects. The faculty have published about 1000 papers in national and international reputed journals and developed over 150 technologies for the benefit of farming community. The college has been granted with 7 patents and 7 more patents are in the grant stage. The college has entered into MoU with several International, National and Private Institutions/Organizations viz., University of Saskatchewan, Canada; Washington State University, USA; University of Lincoln, UK; ICAR-CIAE, Bhopal; NIFTEM, Thanjavur; CRIDA, Hyderabad; M. S. Ramaiah University of Applied Sciences, Bengaluru; SRFMT & TI, Garladinne; JISL, Jalgaon; Eicher Tractors; VST Tillers; Varsha Associates; Sudha Agro Industries, etc. The college is associated with Farm Machinery Manufacturers of the state and working on design, development, evaluation and demonstration of the improved farm machinery ensuring the supply of quality machinery to the farming community through testing and evaluation of farm machinery by the Farm Machinery Testing Centre (FMTC) to achieve the goal of farm mechanization in the state.

ISAE ANNUAL CONVENTION AND INTERNATIONAL SYMPOSIUM

The 57th Annual Convention of the Indian Society of Agricultural Engineers (ISAE) and the International Symposium are being jointly organized by the Indian Society of Agricultural Engineers, New Delhi and College of Agricultural Engineering, University of Agricultural Sciences, Raichur, during 06-08 November, 2023 at UAS, Raichur, Karnataka (India). The event will facilitate the researchers, academicians and technocrats to discuss on their innovative ideas pertaining to smart agriculture practices; precise and automated control of irrigation management systems; post-harvest management of crops for quality and safe food; development of energy efficient farm power machinery tools and adaptation of renewable energy technologies in modern agriculture.

THEME OF ISAE ANNUAL CONVENTION

The theme of the annual convention is **"Agri-Food Systems' Transformation through Engineering Innovations"** chosen in the context of the pivotal role played by the **Agricultural Engineers** in ensuring India's food security in present scenario. Indian agriculture is facing several serious challenges as proper management and judicious use of natural resources are inevitable for sustainability in agriculture. The only possibility to increase the farmers' income with the limited resources is through intervention of novel agricultural engineering technologies for enhancing farm productivity, processing and value addition. Hence, the major objective of this conference is to provide a platform for policy makers, academicians, industrialists, farmers, students and other stakeholders to discuss and come up with appropriate solutions to achieve the goal of transforming agri-food systems for enhancing farmers' income through industry linkages through innovations.

THEME OF INTERNATIONAL SYMPOSIUM

The theme of the International Symposium is "Engineering Interventions for Promoting Millets as a Global Food". United Nations declared the Year 2023 as the International Year of Millets (IYM) on 5th March, 2021, on the proposal moved by India and supported by 72 countries. It is essential to give such honour to the traditional wisdom of humanity. On 6th December, 2022, the Food and Agriculture Organization (FAO) of the United Nations organised an opening ceremony for the International Year of Millets (IYM) 2023 in Rome, Italy. The Department of Agriculture and Farmers Welfare, GoI, New Delhi has taken a proactive multi-stakeholder engagement approach (engaging all the central government ministries, states/UTs, farmers, start-ups, exporters, retail businesses, hotels, Indian Embassies etc.) to achieve the aim of IYM 2023 and taking Indian millets globally. Millets are a group of small-seeded grains cultivated for thousands of years in many parts of the world. They are a great source of nutrition, high in fibre and rich in vitamins, minerals and proteins. Millets are gluten-free making them ideal for those with celiac disease or other gluten sensitivities. Millets are consumed either through direct cooking or by means of processed products. The theme has been selected in line with the future trends and development in Agricultural Engineering domain gearing towards meticulous planning and interventions in precision, smart farming, by employing advanced cutting edge technologies like robotics, artificial intelligence, IoT, machine learning and automation, food processing, value addition and packaging for making millets a global food.

CALL FOR PAPERS

Scientific sessions include presentations of lead papers and keynote addresses by the national and international experts in the concerned subjects. All the scientists, professionals, entrepreneurs and students are encouraged to contribute their quality research works describing original and unpublished results of technical, conceptual, constructive, theoretical and experimental work in the area of Agricultural Engineering and allied sectors. Original research work will also be presented in oral and poster paper sessions. The abstract of the research paper shall be sent only through soft copy to Technical Directors of respective disciplines on given email IDs and also on isaecaer2023@uasraichur.edu.in. The abstract should be of approximately 200-250 words typed in Times New Roman font with a font size of 12 point. Also the abstract should be sent only in Microsoft Word format including three to six key words. The template available in the convention website may be used as reference.

Technical Directors of the respective session will decide on the papers to be presented through oral or poster. A letter of paper acceptance will be sent by the concerned Technical Director of the discipline. After receiving the acceptance, authors have to send full-length paper to Technical Director through email. Detailed guidelines for oral as well as poster presentations are available in the convention website (www.uasraichur.edu.in). Souvenir in both hard and soft copies will be distributed during the registration on the first day of conference. The Souvenir will be published with ISBN number in standard book format. Certificate will be awarded to the participants for attending the convention and international symposium. The official language of the convention and international symposium will be English.

SUB THEMES**THEME I: Farm Mechanization**

- o Seed bed preparation and sowing
- o Inter-cultivation and plant protection
- o Harvesting and threshing
- o Mechatronics, Drones, AI and Robotics
- o Ergonomics and Human safety

THEME III: Land and Water Management Technologies / Soil and Water Conservation Engineering

- o Automation systems and irrigation management
- o Surface and sub-surface drainage systems
- o Groundwater usages strategies & optimal augmentation
- o Land and water resource conservation
- o Watershed management & ecological services

THEME II: Food Processing and Dairy Technology / Value Addition Technology

- o Millet processing and value addition technologies
- o Agriculture and Horticulture crops processing
- o Nanotechnology, functional & nutraceutical foods
- o Novel and emerging post-harvest technologies
- o Dairy, meat, poultry, fish and fibre processing

THEME IV: Green and Alternative Energy Technologies

- o Renewable energy applications in agriculture
- o Biomass and bio-energy harvesting and utilization
- o Clean energy technologies
- o Energy generation from waste
- o Utilization of animal energy in agriculture

Submission of
Abstract10th
September, 202320th
September, 2023Notification of
Acceptance of Paper
to AuthorsSubmission of
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October, 2023

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All participants should register for the **conference** by filling-up the registration form given in the brochure or the link available on the University website: www.uasraichur.edu.in or <https://forms.gle/YYnZ6BusfB4bsu6s6>. Registration fee is to be paid in advance. The details of the registration fee for different categories of participants are given below.

Registration Fee	INR
ISAE Member	₹. 7000
ISAE Non-Member	₹. 8000
SRF/JRF/RA/Research Scholars *	₹. 3000
Accompanying Persons / Students (Non ISAE Members)	₹. 2500
Students (ISAE Members) #	₹. 2000
Online Participants	₹. 5000

10% waiver in
Registration fee
for ISAE members
to Early bird
Registration
on or before
15th Sep., 2023

* Non ISAE members may become member of ISAE before convention

Not applicable for in-service students. All students should attach bonafide certificate from the competent authority.

Note: Selected ISAE student members are eligible for travel grant for the presentation of their original research paper.

Superannuated (Not re-employed) ISAE members can avail registration fee exemption.

MODE OF PAYMENT

Participants can pay the registration fee through online electronic transfer or by a demand draft in favour of "Indian Society of Agricultural Engineers : 57th Annual Convention". The bank account details are given below. The conference fee includes kit, materials, refreshment, lunch and dinner coupons for three days.

Name of the Bank	State Bank of India
Branch	UAS Campus, Raichur
Account Name	Indian Society of Agricultural Engineers : 57 th Annual Convention
Account Number	41903457886
IFS Code	SBIN0010870

SPONSORSHIP AND ADVERTISEMENT

Industries / Organisations / Institutions across the globe are invited for various categories of sponsorship and advertisement in the compendium to be released during the Convention.

Sponsors

Platinum	₹. 5 Lakhs
Diamond	₹. 4 Lakhs
Gold	₹. 3 Lakhs
Silver	₹. 2 Lakhs
Other	₹. 1 Lakh

The industries / Organisations / Institutions are also encouraged to sponsor lunch, dinner and registration kits for the ISAE Convention.

ADVERTISEMENT RATES FOR THE COMPENDIUM

A compendium containing lead papers and abstracts will be published and released during the convention/conference. We welcome advertisements in the Compendium and Industrial Exhibition at the venue of the convention. Details are as follows:

Back Cover Page (Colour)	₹. 50000
Front Inside (Colour)	₹. 40000
Back Inside (Colour)	₹. 40000
Full Page Inner (Colour)	₹. 30000
Half Page Inner (Colour)	₹. 15000
Full Page Inner (Black and White)	₹. 20000
Half Page Inner (Black and White)	₹. 10000

Amount for sponsorship / advertisement may be remitted through Cheque / DD / Online Bank transfer. Details of payments as given in Mode of Payment above.

ACCOMODATION

Limited accommodation is available in the guest houses of University of Agricultural Sciences, Raichur, Karnataka on first come first serve and on payment basis. Hotel accommodation can be booked by the delegates directly. The list of hotels along with the tariffs will be available on the Convention website (www.uasraichur.edu.in). The delegates are advised to email travel plan to isaecaer2023@uasraichur.edu.in to facilitate local travel arrangements, if required. The details regarding accommodation and transport will be updated from time to time on the Convention website. Hotels are available in the tariff range from ₹. 1,500/- to ₹. 4,000 per day. Accommodation to the students will be provided at the University Hostels with nominal charges.

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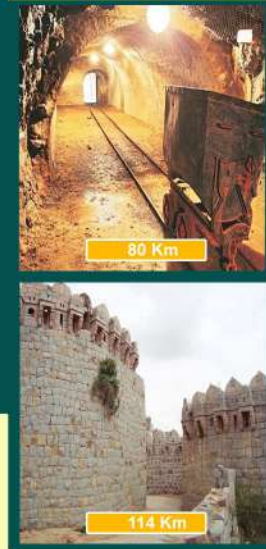
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