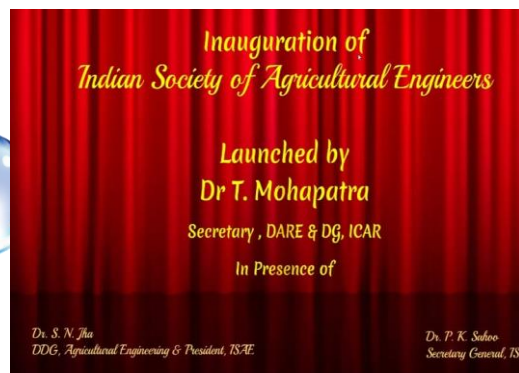


e-NEWSLETTER

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

.... Connecting Engineers in Agriculture

May-June, 2022



4500 + Life Members

36 Chapters

2 Scientific Journals

Published by

INDIAN SOCIETY OF AGRICULTURAL ENGINEERS

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Message From President



***Dear readers!** The Indian Society of Agricultural Engineers' (ISAE) new executive now is at full momentum. It has till now conducted six executive committee meetings, one executive council meeting, five constitution amendment committee meetings, one editorial board meetings of JAE and four meetings of editorial board of AET. Besides it has conducted several lecture series, ISAE calendar-2023 conceptathon, interaction meetings of different stakeholders. Several decisions for forward moving reforms have been taken and implemented. Elections of executives of majority of our chapters have been conducted and many are in pipelines. Recently ISAE new website with several new features such as job portals for industry and students/professionals, secured payment gateway, online membership/award applications, portal for conducting referendum on certain compelling issues etc. was unveiled by Secretary DARE and DG ICAR. The most important is the said site is Guidelines for Indian Government Websites (GIGW) of India compliant. I hope you all must have liked the new features and gorgeous though simple looking website.*

***The membership drive** has yielded tremendous results. More than 50 and 100 Life members and students members respectively have enrolled during this two months period and altogether more than 600 member in last six months. Looking the activities of ISAE numerous industries, government officials and other societies have shown interests in joining hands with ISAE.*

***Friends!** During the period with the help of our professionals and many members, we have reached to several states' governments to make them feel the importance of Agricultural Engineers. After appointment of 58 Agricultural Engineers in Bihar, now Jharkhand state has appointed Agricultural Engineers in its each states. We from ISAE headquarter also have written to several states which are helping our chapters to pursue the case at their level. Results may come after several years.*

***Dear ISAEians.** Country is taking quantum jump in several aspects. You may be knowing that Agricultural Exports of our country have increased tremendously. Now it has touched to about Rs. 50 billion USD with presence in 205 countries, which till recently was in 150 countries. Machinery and processed products are the major chunk of it. The role of Agricultural Engineers/food professionals and natural resource managers are getting more importance. We have to show our presence felt remaining in frontline and fulfilling the Scientific Society's Social Responsibility (SSSR) by conducting several programmes at village/block levels. **Dear Agrineers!** Please come! Join hands! Make a comprehensive programme and implement them at respective local levels, you will find ISAE everywhere to help you. Together we can do, we can prosper and country can again become **World's Guru**.*

S N Jha
President, ISAE

From the Chief Editor's Desk



It is pleasing to note that The Indian Society of Agricultural Engineers (ISAE) is moving into a new phase of its development, towards a growing reputation and reach to Agricultural Engineering professionals. During the period of May-June 2022, the ISAE has taken several steps for betterment of the society, conducted interaction with Agricultural Engineers, training programmers etc.. Further ISAE had launched its new website with several new features.

This newsletter is featured with glimpses of efforts made through activities, training program and interactive sessions conducted during this period of May- June 2022 across the country by various agricultural engineering institutes for dissemination of knowhow to all stakeholders.

A new column of joining/promotions/ retirement has been added in this issue and onwards. I hope the content on various technologies through this e-newsletter will give takeaways on latest technologies to Agricultural Engineering professionals in introducing and implementing the same for benefit of farming community. All ISAE members are requested to send materials related to any column of this e-newsletter by email at iitkanpur.chandu@gmail.com .

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ISAE Happenings

Two Executive committee Meetings held on dated 07.05.2022 and 04.06.2022

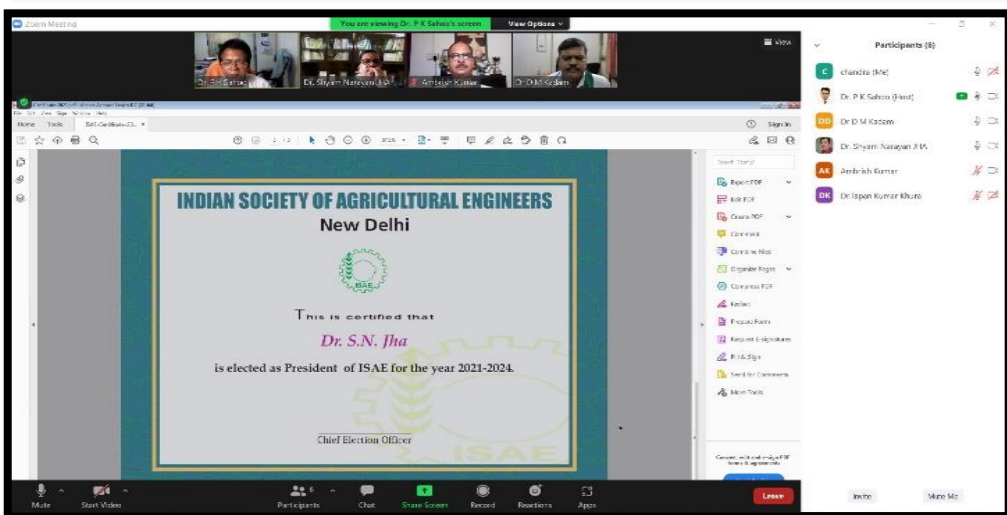
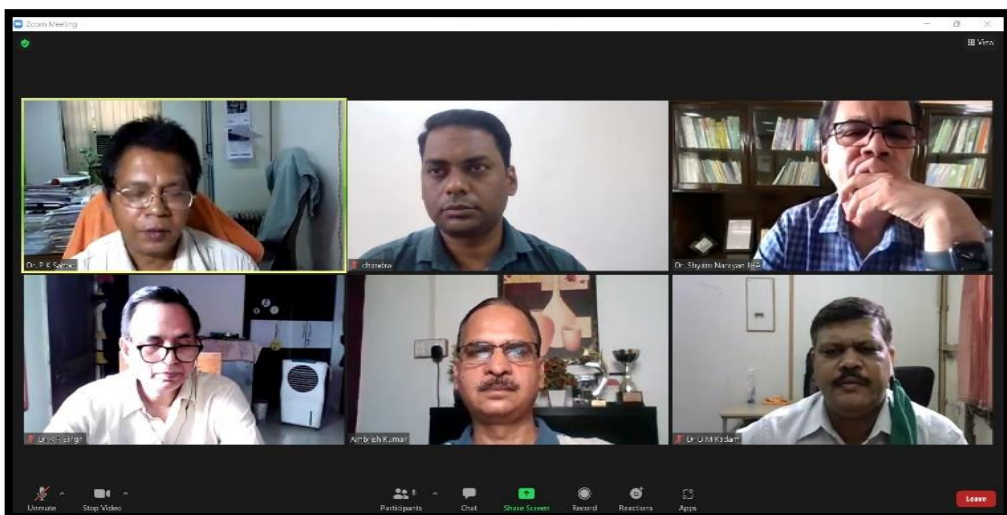
In these meetings several decisions were taken and action plans were made, few are highlighted as under:

1. Discussion on various suggestions received for Award score card was made and several decisions were taken unanimously by the Hon'ble members and score card was approved by the EC.
2. Title and detailed guidelines for conducting the ISAE Calendar 2023 Conception, was discussed and the title of ISAE calendar Conceptathon was finalised as "Engineering Innovation for Millets". A selection committee will select the 3 best concepts (each concept include 12 pictures / sketch/ image) at the collage level or chapter level and send it to Vice-President ISAE (Technical Council). The committee constituted by Vice President, ISAE will compile the entries before sending to ISAE HQ. The best concept will be decided by the ISAE and winner of Conceptathon will be announced and awarded in ISAE Annual Convention.
3. It was suggested that region wise ISAE state chapters meeting shall be organized to revitalize the chapters. Every month's second or third Saturday may be fixed for the purpose. Elections of several ISAE office bearers were held.
4. The Information Brochure of the International Symposium and ISAE Annual Convention was finalized. The title of the annual convention and International Symposium, respectively, are:
 1. Agricultural Engineering Innovation for Global Food Security
 2. India@2047: Agricultural Engineering Prospective
5. The tag line for ISAE website was finalized as
ISAE
..... connecting Engineers in Agriculture



ISAE Happenings

6. The write-up 'History of ISAE' submitted by Prof. Gajendra Singh to AET will further be enriched and published as a booklet with more information and contents. The booklet will be released in the Coimbatore ISAE Convention
7. In order to increase the volume of papers in JAE & AET it was decided that mandatory membership of authors will not be required from the next issue.
8. It was also suggested to complete election of all chapters including Delhi chapter and start activities to make chapter more vibrant

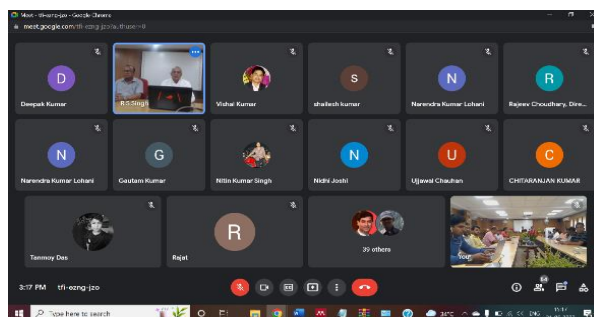


ISAE Happenings

ISAE Bihar Chapter Organised its first lecture in webinar

As celebration of 'Azadi Ka Amrit Mahotsav' to commemorate completion of 75 years of India's Independence, ISAE - Bihar chapter organized its lecture in online mode on 21-05-2022. The executive members and members of the ISAE Bihar comprising of faculties of CAET and Bihar Government officials actively participated in the event.

Mr. R.S. Singh, CMD & Founder , Krishiv Organics, Gurugram gave lecture on 'Drone Technology' and Dr Rajeev Chaudhary, Director (Agril. Engg.) Govt. of Madhya Pradesh gave lecture on topic 'Role of Agril. Engg. towards Sustainable Agriculture'



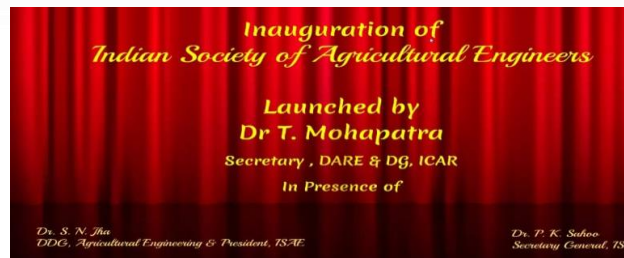
Executive Committee meeting, ISAE Junagarh Gujarat chapter

A general body meeting of the "ISAE Junagarh, Gujarat CHAPTER" was called on 12-05-2022 at 4:30 PM and elections were also conducted to form a New Executive body. Many points were discussed for further improvement of working of the Chapter.

To form a New Executive Council, elections were conducted. The house requested Dr. N. K. Gontia, Principal and Dean, CAET, JAU, Junagadh to take the responsibility to conduct the election for the new Executive Council for the year 2022- 2024. The Chairman (Dr. V. K. Tiwari), the secretary (Dr. G. V. Prajapati) and the treasurer (Dr. S. P. Cholera) were again proposed and supported by the house to continue for another term i.e. up to 31/03/2024. Some other executive members were nominated and supported by the house

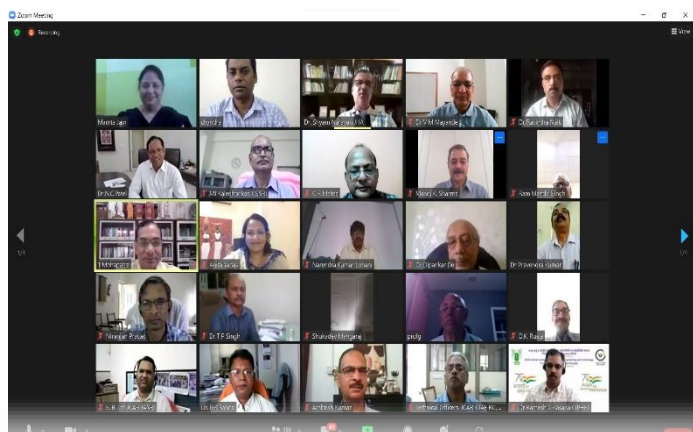
Launching of ISAE New Website

New website of ISAE was launched on 25.06.2022 by the Chief Guest, Dr. Trilochan Mohapatra, Secretary (DARE) & DG, ICAR, New Delhi. The launching ceremony was conducted online.



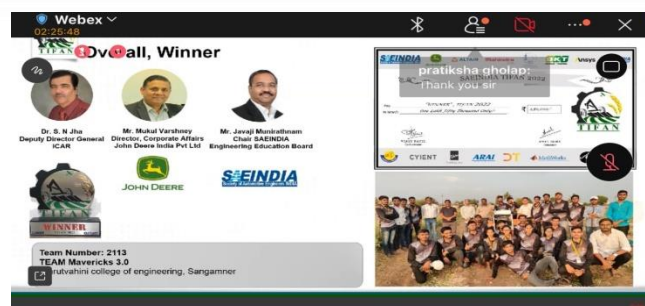
About 180 persons from across the globe attended the launching ceremony. Dr. T. Mohapatra emphasized on Scientific Society's Social Responsibility and he urged Agriculture Engineers to innovate for betterment of farmers.

The new ISAE website consists of job portal, payment gateway, referendum button, online membership applications etc. The Corporate/ institutional members can post their job openings, free of cost and bonafide members can directly apply through website against particular openings. Non-members can also post their job openings by paying nominal charge.



ISAE President Attended SAEINDIA TIFAN as Chief Guest

SAEINDIA TIFAN organised TIFAN competition-2021-22 final award ceremony was chaired by Dr. S. N. Jha, President ISAE as chief guest. A close coordination between SAEINDIA TIFAN and ISAE was emphasised by him. He invited many MNCs to have collaboration with ISAE and ICAR institutes



Guest Lecture on Agricultural Engineering Education

The Department of Agricultural Engineering under the aegis of Gandhi Institute For Technology (GIFT) organized an invited talk on 26th of May, 2022 on “Agricultural Engineering Education”.

The guest speaker was Dr. Pramod Kumar Sahoo, Principal Scientist, ICAR - IARI, New Delhi & Secretary General, Indian Society of Agricultural Engineers (ISAE), New Delhi.



The talk was explicitly arranged for the students and faculty members to know and create awareness for those who want to opt for Agricultural Engineering as their future career.

The session began with the welcome note of Dr. Satyananda Swain, Prof. & Head, Department of Agricultural Engineering followed by the address of Dr. Ch V S Parameswara Rao, Principal, GIFT, Bhubaneswar.

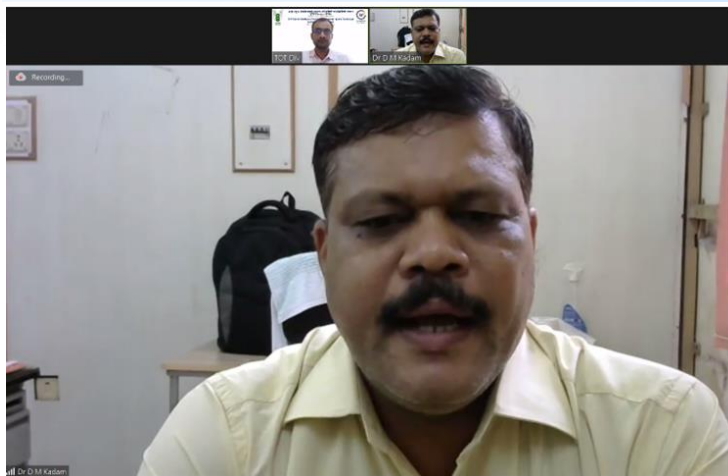
Total one hundred twenty students along with eighteen faculty members attended the talk. The key topic of conversation was

- Employment prospect of Agricultural Engineering students,
- Farm mechanisation and
- Prospect of startups for an agricultural engineering student/graduate.

A post seminar session was also organized to quench the queries of students. The event was communicative and edifying one.



Interaction session on 'Introduction to ISAE' to Agril. Engg. Students



ICAR-Central Institute of Post-Harvest Engineering & Technology, Ludhiana organized an interaction session on 'Introduction to Indian Society of Agricultural Engineers' for trainee student from 13 states/ Agril. Engg. Colleges at ICAR-CIPHET, Ludhiana through online mode on 23 June 2022.

The session was addressed by Dr. Dattatreya M. Kadam, Principal Scientist & Head (Act), TTD, ICAR-CIRCOT, Mumbai and Vice-President (Activity Council), ISAE, through online mode. Dr. Kadam elaborated the activities of ISAE and its role as aggregator of talent in Agricultural Engineering fraternity. He emphasized on different activities of ISAE that are targeted towards facilitating and attracting the youth & students towards the society and benefit to students by joining ISAE. Dr. Kadam urged B. Tech. (Agril Engg) students to join ISAE student membership to develop network, get advice/ guidance from learned members, projects, DPR, entrepreneurship, establish industries, publish research articles, attend conferences/ seminars, etc. About 53 trainee student joined the session from ICAR-CIPHET Ludhiana campus.

TV9 Education Summit 2022 for Showcasing the B. Tech. (Agricultural Engineering)

The faculty of Agricultural Engineering from the College of Agricultural Engineering UAS RAICHUR has participated in TV9 Education Summit 2022 for Showcasing the B. Tech. (Agricultural Engineering) and the College of Agricultural Engineering RAICHUR, Karnataka for attracting brilliant PU SCIENCE students for the B. Tech. Agricultural Engineering degree program.



IGFRI Diamond Jubilee Online Lecture Series Organized in Collaboration with ISAE & RMSI

There are many more crops other than cereals, pulses and oilseeds, which might have innovative utilization and have scope for improving livelihood of farmers. In this direction, ABI Centre of Indian Grassland and Fodder Research Institute, Jhansi (ICAR-IGFRI, Jhansi) initiated a lecture series on the occasion of celebrating Diamond Jubilee year (1962-2022) of ICAR-IGFRI Jhansi and 75 years of independence of India (Azadi ka Amrit Mahotsav) from 23rd April 2022 on the third Saturday of every month.

The IGFRI Diamond Jubilee Online Lecture Series-2022 on "Entrepreneurship Development in Processing Fodder and Allied Crops" is being conducted online on Zoom platform in association with Indian Society of Agriculture Engineers, New Delhi and the Range Management Society of India, Jhansi.

The Lecture Series was inaugurated by the Chief Guest Dr Shyam Narayan Jha, Deputy Director General (Engineering), ICAR New Delhi on 23rd April 2022 and Dr Amaresh Chandra, Director IGFRI, Jhansi chaired the inaugural programme. Before the start of the lecture series, Dr Ambrish Chandra, Dean, CAE, PUSA, Samastipur and Vice President ISAE briefed about the activities of ISAE. Dr. Palsaniya, Principal Scientist and Secretary, RMSI also briefed about the activities of RMSI.

The programme was attended by agri-entrepreneurs, member of various food, feed & fiber industries, representatives from dairy sectors, scientists/ researchers from different ICAR research institutes/ SAUs/ CAU/ KVKs, members of ISAE/ RMSI, FPOs and students.

Following 04 lectures have been conducted during April – Jun., 2022, under IGFRI Diamond Jubilee Online Lecture Series

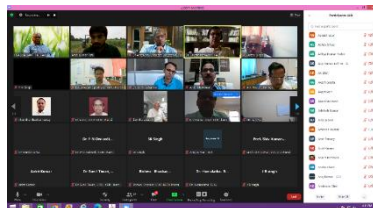
1. Entrepreneurship Opportunity in Feed & Fodder Sector
2. Entrepreneurship Development in Processing Fodder and Allied Crops
3. Community- led Rangeland Revival & Management in CPR setup
4. Hydroponics and Aeroponics- A new vista in Agri-prenureship



IGFRI Diamond Jubilee Online Lecture Series organized in collaboration with ISAE & RMSI

Lecture 1 - Entrepreneurship Opportunity in Feed & Fodder Sector

The first lecture on “Entrepreneurship Opportunity in Feed & Fodder Sector” was delivered by Dr. P. K. Pathak, Principal Scientist (ASPE) and Head FMPHT Division, ICAR-IGFRI Jhansi on 23rd April, 2022. Dr Pathak elaborated the significance of fodder and allied crops in detail along with the entrepreneurship opportunities using advanced processing methodologies.



Lecture-2 Entrepreneurship Development in Processing Fodder and Allied Crops

The second on “Entrepreneurship Development in Processing Fodder and Allied Crops” was delivered by Dr. Lalit Mohan Bal, Member of National Mission on Bamboo (NITI Aayog) and Assistant Professor (Food Engineering), JNKVV College of Agriculture Tikamgarh (MP) on 21st May, 2022 at 2.30 pm. He deliberated on the topic “Prospects of Bamboo Shoot Processing and Value Addition: An Emerging Startup” and emphasized about the importance of bamboo shoot and its processing techniques.

He also described bamboo shoot based products with their benefits viz. salt water, wine, tea, vinegar, charcoal, rice, solar water heater etc. and emphasized that these products can be taken at commercial venture for entrepreneurship development.



IGFRI Diamond Jubilee Online Lecture Series - 2022
on
“Entrepreneurship Development in Processing Fodder and Allied Crops”

Organized by
Agri-Business Incubation Centre
ICAR-Indian Grassland and Fodder Research Institute, Jhansi
In Collaboration with
Indian Society of Agricultural Engineers, New Delhi
&
Range Management Society of India, Jhansi

Lecture - I

Entrepreneurship Opportunity in Feed & Fodder Sector

Speaker
Dr. Prabha Kant Pathak
Principal Scientist (ASPE) and Head FMPHT Division, ICAR-IGFRI Jhansi

23rd April, 2022
3:00 PM - 4:30 PM

Zoom Meeting ID: 811 5599 4689
Passcode: 026657



Organizing Team
Dr. Amaresh Chandra, Director, ICAR-IGFRI and President, RMSI, Jhansi
Dr. Prabha Kant Pathak, PS & Head, FMPHT Division and PI, AIBC
Dr. Dana Ram Palsaniya, Principal Scientist (Agronomy)
Er. Amit Kumar Patil, Scientist (Farm Machinery & Power)
Dr. Deepak Upadhyay, Scientist (Livestock Production & Management)
Sh. Kailash Prakash Rao, Chief Technical Officer (AKMU)

For more details, please contact:
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Mob. 9450078170 e-mail: ppathak65@gmail.com
Dr. Dana Ram Palsaniya (Secretary, RMSI, Jhansi
Mob. 9889387292 e-mail: drpalsaniya@gmail.com)



IGFRI Diamond Jubilee Online Lecture Series - 2022
on
“Entrepreneurship Development in Processing Fodder and Allied Crops”

Organized by
Agri-Business Incubation Centre
ICAR-Indian Grassland and Fodder Research Institute, Jhansi - 284 003
In Collaboration with
Indian Society of Agricultural Engineers, New Delhi
&
Range Management Society of India, Jhansi

Lecture - 2

Prospects of Bamboo Shoot Processing and Value Addition - An Emerging Startup

On 21st May, 2022 at 2:30 PM - 3:45 PM



Speaker
Dr. Lalit Mohan Bal
Member of National Mission on Bamboo (NITI Aayog)
Asst. Prof. (Food Engg.)
JNKVV, College of Agriculture, Tikamgarh, (MP)

Meeting ID: 869 4632 7911
Passcode: 949501

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Mob. 9889387292 e-mail: drpalsaniya@gmail.com)

IGFRI Diamond Jubilee Online Lecture Series organized in collaboration with ISAE & RMSI



IGFRI Diamond Jubilee Online Lecture Series - 2022

on

"Entrepreneurship Development in Processing Fodder and Allied Crops"

Organized by

Agri-Business Incubation Centre

ICAR-Indian Grassland and Fodder Research Institute, Jhansi - 284 003

In Collaboration with

Indian Society of Agricultural Engineers, New Delhi
&
Range Management Society of India, Jhansi



Lecture-3 "Community - led Rangeland Revival & Management in CPR Setup"

June 18, 2022

14:30 h – 15:45 h (IST)

Er. Ravi Pratap Singh,

Ex Member NITI Aayog Empowered Committee
International Programs Director,
Aide et Action-an international NGO, Geneva (HQ),
Colombo, Sri Lanka

Lecture 4

"Hydroponics and Aeroponics - A new Vista in Agri-preneurship"

June 18, 2022

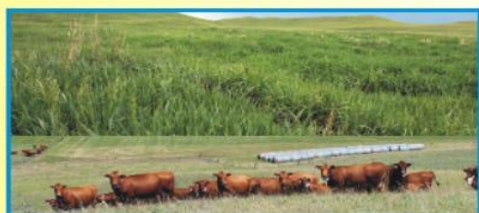
15:45 h – 17:00 h (IST)

Er. Praveen Sharma,

Founder – Flora Consult
Pune - 410506

<http://www.floraconsult.com>


Meeting ID: 867 2154 5988
Passcode: 862955



Organizing Team

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Secretary, RMSI, Jhansi

Mob. 9889387292 e-mail: drpalsaniya@gmail.com

7th Meeting of Indian Grain Storage Working Group

The “7th Meeting of the Indian Grain Storage Working Group (IGSWG)” was organized by the Division of Agricultural Engineering, Indian Council of Agricultural Research, New Delhi at the National Agricultural Science Centre Complex, New Delhi on 20th May, 2022.

Inaugurating the Meeting, **Dr. Trilochan Mohapatra, Secretary (DARE) & Director General, ICAR** urged for looking into the bulk storage of grains and bringing out a comparison of its advantages and disadvantages with respect to the traditional methods as a document. The Director General also suggested for establishing the extensive linkages with the Department of Food and Public Distribution, Food Corporation of India, Industry Partners and other Stakeholders for the efficient management of the stored grains.

Dr. S.N. Jha, Deputy Director General (Agricultural Engineering), ICAR briefed about the salient achievements of the Group since its inception. Dr. Jha highlighted the Theme of the 7th Meeting - “*Natural Modern Grain Storage Technologies*” and its importance in the era of organic farming and natural farming.

The Scientists from various ICAR Institutes and All India Coordinated Research Project on Post-Harvest Engineering & Technology Centres, Faculty Members and Students from ICAR-Indian Agricultural Research Institute, New Delhi; Delegates from CFTRI, FCI and Industries, etc., participated in the Meeting.



Workshop on Farm Mechanization : Making Farming as Prosperity

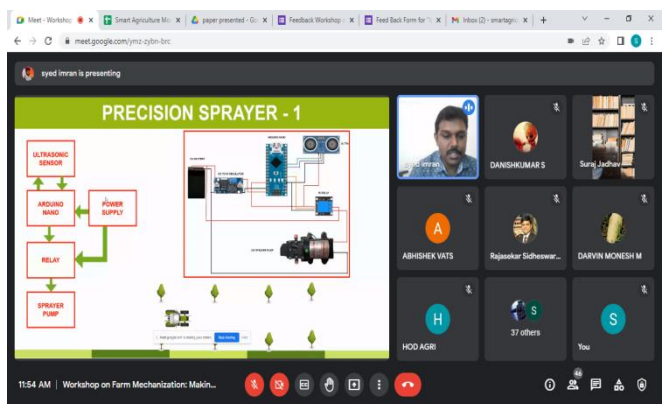
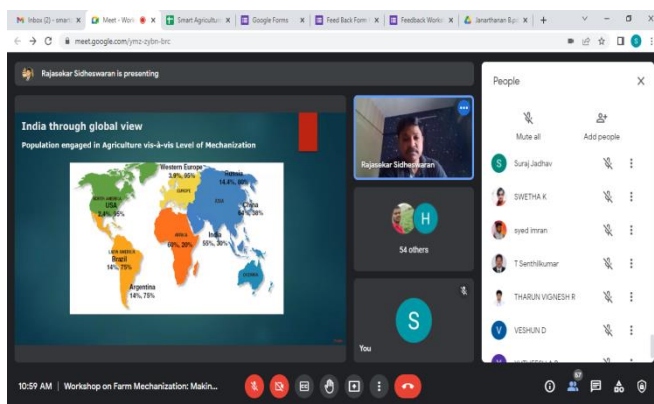
Department of Agricultural Engineering, Bannari Amman Institute of Technology, TN along with Indian Society of Agricultural Engineers (ISAE) New Delhi, organized a one-day virtual workshop on **“Farm Mechanization: Making Farming as Prosperity”** on 30/04/2022

Dr. T. Senthilkumar, Principal Scientist CIAE- Regional Centre, Coimbatore and Director – FMP Engineering, ISAE has given a welcome speech and inaugurated the workshop. He has given brief about how ISAE functions, and how it can be helpful for Agricultural Engineering graduates to be part of it.

After his talk, Mr. Rajsekar S, Deputy General Manager, John Deere, have given his thoughts on Farm Mechanization. Also, he has given guidance to the students for becoming Agricultural Machinery Designers. He also mentioned various technical details like drawing software, and analysis software which are much more needed nowadays in the Industry along with the basic Soil parameter Knowledge.

Further Dr. Syed Imran S, Scientist, ICAR Central Institute of Agriculture Engineering Regional Center, Coimbatore, has shared his own experience in designing and developing new precision farming machinery. Also, he has given guidance on Robotic application in Agriculture.

In the end, Workshop was concluded with a vote of thanks by Dr Chelladurai V HOD- AGRI, and Mr. Nimkar Amey Sanjay AP- AGRI. Total 63 students across Tamil-Nadu have participated in this workshop along with the faculty members and scientists.



Agricultural engineers can increase productivity in lesser time with greater perfection: ICAR DDG

The Birsa Agricultural University (BAU) organized a session for the students of College of Agricultural Engineering (CAE) on 15th June 2022. The speaker on the occasion was Dr S N Jha, Deputy Director General (Agricultural Engineering) of Indian Council of Agricultural Research and President of Indian Society of Agricultural Engineers. Addressing the students, Dr SN Jha said, “In the face of dwindling land resources and increasing number of farmers for agriculture and food demand to feed the burgeoning population, expectations from agriculture engineers have increased considerably as they have the capability to increase production and productivity in lesser time and with greater perfection through farm mechanization.”

Dr. Jha further urged the students to have short term, medium term and long term targets in life and to use every minute effectively whether they are studying, writing, walking or sleeping. “Try to take up and complete the priority number one task just after getting up and if it fails for any reason, take up the second priority,” he said. He further added, “One should always be confident in approach, never be afraid of background, identify his/ her weaknesses on a regular basis and try to remove them with improvement exercises and regular practice.”

Dr. Jha said he would impress upon the state government and JPSC from ICAR level for early recruitments against the vacant posts of College of Agricultural Engineering as acute shortage of teachers would affect accreditation and graduates will not be able to take admission in PG engineering courses of country's leading institutes and agricultural universities. He also stressed that UG students should be sent for country's different universities for four-week Student READY (Rural Entrepreneurship Awareness Development Yojana) Programme in order to have varied experience and exposure.



रोमिनार

बीएसयू में आईसीएआर के उप महानिदेशक ने छात्र-छात्राओं किया संबोधित

कृषि अभियंता कम समय में बढ़ा सकते हैं उत्पादकता : डॉ एसएन झा

❖ व्यक्ति को हमेशा विश्वास से भरना चाहिए

❖ अपनी पहचान से जुड़े किसी गलती के कारण डरना नहीं चाहिए

राष्ट्रीय खबर

रांची : पश्चिम बंगाल में आयोजित कार्यक्रम के उप महानिदेशक डॉ एसएन झा ने कहा है कि संकीर्ण कृषि के माध्यम से कृषि अभियंता कम समय में और अधिक उत्पादकता प्राप्त कर सकते हैं। कृषि कार्य के लिए बुद्धिमान संसाधन में युवाओं के कम होने के कारण वर्षोपरांत किसानों को बहुतों उप

और पट्टी संसाधन को बचाने से कृषि उत्पादकता बढ़ाने की चुनौतियां बढ़ती जा रही हैं इसलिए वैश्विक स्तर पर वैश्वीकरण कृषि अभियंताओं की ओर ज्यादा ध्यान देने की जरूरत है। डॉ झा कृषक को विरस कृषि विश्वविद्यालय की अतिथि प्रकाश कृषि अभियंता महाविद्यालय के



छात्र-छात्राओं को संबोधित कर रहे हैं। उन्होंने कहा कि समय परिवर्तन, वैश्विक मापदंडों के आसानी टकराव और कोरोना जैसी वैश्व बड़ी चुनौतियों का सामना करने हुए ही हमें विकास मार्ग पर आगे बढ़ना है। उन्होंने विद्यार्थियों का आह्वान किया कि अपने भावी जीवन के लिए लगे अग्रणी, छात्र-छात्राओं को संयोजित कर रहे हैं। उन्होंने कहा कि समय परिवर्तन, वैश्विक मापदंडों के आसानी टकराव और कोरोना जैसी वैश्व बड़ी चुनौतियों का सामना करने हुए ही हमें विकास मार्ग पर आगे बढ़ना है। उन्होंने विद्यार्थियों का आह्वान किया कि अपने भावी जीवन के लिए लगे अग्रणी,

मध्यम अवधि और लंबी अवधि के लिए लक्ष्य निर्धारित करें तथा प्रत्येक मिनिट का विकल्पपूर्ण और प्रचुरी इस्तेमाल करें, चाहे कि अजबल कर रहे हों, लिख रहे हों, सो रहे हों, टहल रहे हों, खाने और सोने में भी प्रविष्टि की प्रतीति में संलग्न हों।

व्यक्ति को हमेशा विश्वास से भरना चाहिए, अपनी प्रकृति से जुड़े किसी गलती के कारण डरना नहीं चाहिए, अपनी कमजोरियों को निर्बल रूप से चिन्हित करने और सुझाव संकेतों सहित अवसर हाथ में लेने का प्रयास करने चाहिए। उन्होंने कहा कि शिक्षकों-कर्मियों के पद रिक्त रहने से कॉलेज का एग्जीक्यूटिव प्रभावित होगा और यहां से खेतीक की रिक्ति लेनेवाले छात्र छात्राओं को देश के अग्रणी संस्थानों और कृषि विश्वविद्यालयों में कृषि अभियंता के तौर पर प्रवेश देने में बाधित हो सकती है। उन्होंने कहा कि अग्रणी, छात्र और छात्रा में प्रविष्टि की प्रतीति के लिए कृषि अभियंता के विश्वविद्यालयों में 4 साल के स्टूडेंट एंडी ग्रेजुएट के लिए देश के विभिन्न कृषि विश्वविद्यालयों में भेजा जाना चाहिए। करियर संभावनाओं से संयोजित विद्यार्थियों के प्रश्नों का उत्तर देते हुए डॉ झा ने कहा कि कृषि अभियंता प्रभावित राज्य सरकारों की कृषि सेवा भारतीय खाद्य निगम और उद्योगों में आसानी से जा सकते हैं।

Conference on ‘Promoting Kisan Drones- Issues, Challenges and Way Forward’

Union Minister of Agriculture and Farmers Welfare Shri Narendra Singh Tomar on 2nd May 2022 inaugurated and addressed the conference on “Promoting Kisan Drones: Issues, Challenges and the Way Ahead” organized as part of Azadi Ka Amrit Mahotsav. Shri Tomar said that the government is promoting the use of drones for the convenience of the farmers, reducing the cost and increasing the income. For promoting use of Kisan Drones, the government is providing 50% or maximum Rs. 5 lakh subsidy to SC-ST, small and marginal, women and farmers of northeastern states to buy drones. For other farmers, financial assistance will be given upto 40 percent or maximum Rs.4 lakh, the Minister Added

Speaking on the multi-faceted use of drones in agriculture, Union Agriculture Minister Shri Tomar said that Prime Minister Shri Narendra Modi has initiated the use of drones in agricultural activities in the wider interest of farmers. The government is promoting the use of 'Kisan Drone' for crop assessment, digitization of land records, spraying of pesticides and nutrients for which provision has also been made in the budget. Modernization of the country's agricultural sector is on the agenda of the government led by Prime Minister Shri Modi.

He said that To promote use of drones in agriculture and make drone technology affordable to the farmers and other stakeholders of this sector, financial assistance @ 100 % cost of drone together with the contingent expenditure is extended under Sub-Mission on Agricultural Mechanization (SMAM) to the Farm Machinery Training & Testing Institutes, Institutions of Indian Council of Agricultural Research, Krishi Vigyan Kendra (KVK) and State Agricultural Universities (SAUs) for its demonstration on the farmer's fields.

Agriculture Secretary Shri Manoj Ahuja said that the conditions are favorable to take drones to the farmers and the government is also committed in this regard. ICAR Director General Dr. Trilochan Mohapatra said that ICAR is contributing through research and training. With this, more and more farmers will be ready to use drones.



Sorghum *Hurda* Extraction Machine developed by AICRP

Nowadays, agro-tourism business is increasing in the rural area and *hurda* parties are being popular in Maharashtra, due to its nutritional benefits and its unique sweet taste. But the extraction of *hurda* from the panicle is time consuming and laborious work. To overcome these problems, AICRP on PHET Scheme (ICAR) Akola Centre, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola has developed the sorghum *hurda* extraction machine. The machine is running on single phase 1 HP electric motor and has input panicle capacity 150 kg/h. This machine achieved good extraction upto 93% efficiency with minimal damage to sorghum *hurda*. The facility is provided to adjust the belt clearance as per the size of sorghum kernel. The machine is easy for operating and handling. Dr. Vasudev Mate, Asstt. Research Engineer and Dr. Pramod Bakane, Research Engineer, AICRP on PHET Scheme, Akola Centre have been key researchers behind this development.

Recently, the large scale demonstrations have been taken at Beed district on farm of Shri. Abhijeet Khivansara and Aurangabad district on the farm of Narayan More. The *hurda* growers were happy and satisfied with the working of developed machine. In view of Continuous demand of the machine from the *hurda* growers, The University has identified two manufactures for fabrication of this machine. The MoU will be signed soon between the University and manufactures for authorization.



(Source: Information furnished by Dr. V. N. Mate, Asstt. Research Engineer, AICRP on PHET Scheme, Dr. PDKV, Akola)

Success Story Sahyadri Farms, Nashik

SAHYADRI FARMS: Mr. Vilas Shine (Agricultural Engineer) built a Rs 785 crores turnover Farmer Producer Company

Refusing to give in to failures and disappointments, Vilas Shinde, hails from a modest farmer's family, who holds a post-graduate degree in Agricultural Engineering with a gold medal from Mahatma Phule Agricultural University, Rahuri (Maharashtra), persisted in his dream to work for the betterment of farmers and succeeded in his efforts. In 2010 he started "**Sahyadri Farms**" with an investment of Rs 1 lakh and with 100 farmers as a Farmer Producer Company (FPC). Later in 2018, the company built a fruit processing plant at Mohadi in Nashik in a campus spread across 100 acres with an investment of Rs 250 crores. He ventured it as his own choice, by skipping the option of Government or Private Jobs, after completing post graduation. He eliminated middlemen concept as he faced many losses in initial days. In 2010, the consignment to Europe was rejected, costing loss of 6.50 crores, due to excess chemical residue found in the grapes.



It was a devastating blow to the startup, but Vilas was not prepared to give up. He compensated the loss of farmer members by selling his properties. This awarded him the faith of farmers and gave him the eternal strength to continue. It was the turning point in his life. From then on, the company began to grow. In 2017, their turnover stood at Rs 223 crore and in FY 2021-22, it jumped to Rs 785 crores.

The company is entirely owned by farmers. Today, Sahyadri Farms is a massive success story with 10,000 farmers collectively owning about 25,000 acres in Nashik region of Maharashtra and producing 1,000 tonnes of fruits and vegetables daily. In the initial years, Sahyadri focused mostly on grapes, because of its demand in foreign market. Sahyadri Farms is the biggest exporter of grapes in India. The company exported 23,000 metric tonnes of grapes, 17,000 metric tonnes of banana, and 700 metric tonnes of pomegranates in 2018-19. The Company is also one of the biggest traders of tomatoes in the country. Around 60% of Sahyadri Farms' fruits and vegetables are exported to 42 countries including Russia, US and various European Countries and 40% is sold in India.



Now, besides producing fruits and vegetables, Sahyadri is also into manufacturing of different kinds of value-added products of vegetables and fruits such as pulps, dices, fruit juices, slices, ketchups, frozen vegetables and fruits jams under the brand name of Sahyadri Farms. The company has 12 stores spread out in Mumbai, Pune and Nashik to sell its own branded products. There are 1200 direct employees working in various departments of the company such as research and development, production, finance, human resources and retail, and 3500 indirect employees including daily wagers and contract workers.

(Source: Bilal Khan, <https://www.theweekendleader.com/Success/2992/the-rich-farmer.html>, The Weekend Leader - Vilas Shinde, Founder, Sahyadri Farms, Success Story)

Awards & Achievement

MPKV, Rahuri Agroneers bagged Best Design Award at TIFAN -2022

The B. Tech. (Agricultural Engineering) students of Dr. Annasaheb Shinde College of Agricultural Engineering and Technology, Mahatma Phule Krishi Vidyapeeth, Rahuri participated in National Level SAE (Society of Automotive Engineers) INDIA TIFAN (Technology Innovation Forum for Agricultural Nurturing) competition – 2022 with the design of ‘Self - Propelled Onion Harvester’. The college team named as ‘Farm Tigers’ comprised of 25 students under captaincy of Mr. Rushikesh Kavade (Final Year B. Tech.). They bagged ‘Best Design Award’ amongst around 30 teams, participated from across the country.



राहुरी विद्यापीठ : डॉ. अण्णासाहेब शिंदे कृषि अभियांत्रिकी व तंत्रज्ञान महाविद्यालयातील कृषि अभियांत्रिकी पदवीच्या 25 विद्यार्थ्यांच्या फार्म टायगर्स या चमूने महात्मा फुले कृषि विद्यापीठ, राहुरी या ठिकाणी झालेल्या राष्ट्रीय स्तरावरील एस.ए.ई. इंडिया तिफन-2022 या एकदिवसीय स्पर्धेत प्रथम क्रमांकाचा उत्कृष्ट डिझाईनचा पुरस्कार मिळविला आहे. या स्पर्धेमध्ये देशभरातून एकुण 30 संघ सहभागी झाले होते.

हा पुरस्कार स्वयंचलीत कांदा काढणी यंत्र निर्मितीसाठी मिळाला असून रु. 20 हजाराचे रोख रक्कमचे पारितोषिक मिळाले आहे. पुरस्काराचे वितरण अमरावती येथील जाधव अँग्रो इन्डस्ट्रीजचे अध्यक्ष राजेंद्र जाधव यांच्या हस्ते करण्यात आले. या स्पर्धेत विविध सात प्रकारांमध्ये पुरस्कार देण्यात आले. डॉ. अण्णासाहेब शिंदे कृषि अभियांत्रिकी व तंत्रज्ञान महाविद्यालयाच्या माजी विद्यार्थी संघटनेने या प्रकल्पासाठी आर्थिक सहाय्य केले असून डॉ. अवधूत वाळूज व डॉ. पी.बी. कदम यांनी या प्रकल्पासाठी मार्गदर्शक म्हणून काम पाहिले. कृषि यंत्रे व उच्च अभियांत्रिकी या विभागामध्ये या प्रकल्पावर काम करण्यात आले.

First of all, the team went through the virtual round of the event in which team presented the conceptual design of the machine. After successfully qualifying the virtual round, team started working on design and fabrication of the Self - Propelled Onion Harvester. The expert committee evaluated the design through field demonstration. This machine can harvest the onion grown on raised bed and compatible to bed of 750 mm wide separated by 375 mm wide furrow form adjacent bed. This machine can harvest around 3.5 tonnes of onion per hour. Dr. Avdhoot Walunj and Dr. Pravin Kadam were the mentor for this project.

The University authority Dr. P. G. Patil, Hon'ble Vice Chancellor, Dr. Sharad Gadakh, Director of Research, Dr. Pramod Rasal, Dean, Dr. Dilip Pawar, Associate Dean and Dr. Sachin Nalawade, Head Dept. of FMPE congratulated the team and faculties involved in this project and encouraged them to take all necessary steps to make the technology available for all. The Association of Alumni Agricultural Engineers (AAAE) of Dr. Annasaheb Shinde College of Agricultural Engineering and Technology, Mahatma Phule Krishi Vidyapeeth, Rahuri sponsored this project.

(Source: Information furnished by Dr. Avdhoot Walunj, Asstt. Professor, Deptt. of FMPE, CAET, MPKV, Rahuri, Maharashtra).

Retirement



Dr. Kanchan Kumar Singh ADG FE Supernuated on 30 June 2022. He did

- B. Tech. from GBPUA&T, Pantnagar - 1982
- M. Engg. From AIT Bangkok, Thailand - 1988
- Ph. D. - Iowa State University, USA - 1991
- Post Doc. - National Soil Tilth Lab, USA - 1991-92

Dr. K K Singh, has served the country for about 40 years in teaching, research, extension, industry, large mechanized farms, and research management at national and international universities & organizations

He is recipient of Many national and international awards including American Society of Agricultural Engineers' best research paper award

He managed Research & Development in the fields of Farm Mechanization, Precision Farming & Energy in Agriculture as ADG (Engg.) at ICAR for 9 years.

We wish him a happy and healthy post-retirement life



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LM-12339	Manisha Vusa
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LM-12341	Santosh Bandu Bendkhale
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LM-12344	Sunil Nathu Khedekar
LM-12345	Raushan Kumar
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ISAE Chapters

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