



Science Conclave and Agro-Tech Expo 2023 Rural Development through Science & Technology



Priya & Soundrya

The Science Conclave and Agro-Tech Expo 2023 was organized on March 15–16, 2023, by the CSIR-National Institute of Science Communication and Policy Research, New Delhi, DST Haryana, and Gurugram University in Gurugram, Haryana. The chief guests were Prof Ranjana Aggarwal, Director, CSIR-NIScPR, Dr Kailash Chandra Sharma, Vice Chairman, Haryana State Higher Education Council, Panchkula, Haryana, Dr N Kalaiselvi, Secretary, DSIR and DG, CSIR, Dr. Omkar Rai, Chairman, Startup Odisha and Former Director General, Software Technology Parks of India (STPI), Prof. Asim Ali Khan, CSIR National Institute of Science, Communication and Policy Research.

The Science Conclave and Agro-Tech Expo 2023 featured a wide variety of exhibitors, including producers of dairy and agricultural goods, firms that provide equipment and technology, institutions that conduct agricultural research, colleges, and governmental organizations. Visitors may explore the newest developments in agricultural and dairy equipment and technology, as well as new business opportunities.

Following a visit to the technology exposition by all the chief guests and visitors, Saraswati Vandana, and the lighting of lamp for Maa Saraswati idol officially started the event.

The purpose of the event is to introduce farmers and students to CSIR technologies for sustainable rural development. The expo drew more than 1500 visitors, including scientists, academicians, farmers, and high school and college students from the surrounding areas. The event offered a supportive environment for the participants' fruitful interaction and idea-sharing, opening doors for the dissemination of CSIR technologies for problem-solving through science and technology intervention in rural areas.

Prof. Dinesh Kumar, the vice chancellor of Gurugram University warmly welcomed all the guests. He said, "This type of event helps the students use these technologies to help our farmers. The two-day event is going to be a very significant for the students, the farmers, and the scientists, and will also help them to solve their difficulties."

Dr N Kalaiselvi, Secretary, DSIR and DG, CSIR, said "She began by expressing gratitude to the hosts, organizers, and each and every participant at the event before beginning. She appreciated all the farmers who attended the event and all the farmers across who toil day and night to feed the nation. She continued by saying that farmers need to be honored, as they are our Annadata.

Dr. Omkar Rai, Chairman, Startup Odisha and Former Director General, Software Technology Parks of India (STPI), said that his lab has organized events in various states and has been very helpful in engaging with farmers and fostering their development. He also expressed his gratitude to everyone who contributed to the success of the event and to the entire crew.

Prof. Shankar Tatwawadi, began his remarks by praising our farmers, who are the Annadata of the nation. He also discussed the nation's reliance on the agricultural products it produces, as well as the that scientists play in ensuring the nation's food security. He also expressed gratitude to Gurugram University for hosting this occasion.

HIGHLIGHTS OF THE EVENT

- Technology Showcasing of CSIR Technologies for rural livelihood creation and sustainable development: CSIR-IHBT, CSIR-AMPRI, CSIR-IIP, CSIR-CIMAP, CSIR-CSMCRI, CSIR-NBRI, CSIR-NIIST and CSIR-NIScPR
- Krishi Chaupal: Scientist-Farmer Interaction KISAN SABHA App for smart farming
- On Site Poster Making Competition on the theme "Sustainable Development"
- Showcasing of Science Models on the theme "Aatmanirbhar Bharat"

Prof. Ranjana Aggarwal, the founder Director of CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR), thanked all the chief guest, farmers, and Prof. Dinesh Kumar. She said, "CSIR-National Institute of Science Communication and Policy Research (CSIR-NIScPR) has a proud history of 70 years in science communication, cultivating a scientific mindset among the public. It works for the promotion of science, technology, and innovation policy studies, and serves as a link between industry, society, and science and technology all help to build a strong S&T ecosystem in the nation". She addressed about how CSIR works for the betterment of farmers of our country. She also motivated the participants.

Moreover, two technical sessions were held on the first day of the event. In the first technical session, scientist-farmer interactions were organized and moderated by Shri Ramveer Shresth, Anchor of Smart Kheti (Sansad TV). The technologies were discussed by CSIR and the discussion was named as 'Krishi Chaupal.' The second technical session featured expert lectures by Prof. Mahesh Dattatraya Burande, Director, Institute of Pharmaceutical Education and Research, Pune, where farmers asked their queries and shared their difficulties and the experts answered them. The third Technical Session held on the second day, was chaired by Dr Amit Bansal, Vice President (Formulation), Mankind, Gurugram and expert lecture took place where the experts Prof Bhagwan Singh, Professor, Department of Geophysics, Kurukshetra University, Kurukshetra introduced KISAN SABHA App for Smart Farming. The fourth session was chaired by Dr Naresh Kumar, Chief Scientist, CSIR-NIScPR which aimed to showcase the science models on the theme "Aatmanirbhar Bharat".

For young students and participants, the event also organised puppet shows on both days, science mentalism show, SciToon show, Saurmandal Ki Sair, and Aloo Ki Kahani. These events add to the excitement and energy of the expo, providing a fun and engaging experience for visitors.



Riya Sehrawat



Dr. N. Kalaisalevi , DG CSIR

What is your feeling while attending this event?

Good afternoon, I'm very happy and excited as Gurugram University has organised this Science Conclave and Agro-tech expo 2023. Today we saw a number of students, farmers, industries and startups and it presented a great picture of Gurugram University among us.

According to you , how are these sort of events impactful for young minds?

Gurugram university has taken a great initiative to organise such programmes. These programmes are not just useful for farmers or industrialists but for the youth as well. This will also be impactful for young researchers, students and farmers

How these types of collaboration programmes conducted by the universities are fruitful?

These types of collaboration programmes which are conducted provide global acceptance to the Indian market. And it's also a target to give a better platform.

In your opinion, how can we involve people of other disciplines or departments so that it can be beneficial for the industry?

In my opinion, Science has no boundaries and is gender free also as well as no age bar. Therefore, covering all age groups starting from school children upto elder people. I think we can keep a perfect balance and when we are talking about sustainable changes it should be for a mixed population for science and technology.

What all improvements can be made in science and technology for the future so that it can help the nation more?

As I earlier mentioned in my address, whether industries, researchers and startups, all of these aim for a constant country's betterment. What is in that, a common man's investment because your region is famous for its rural image. Rural region should be improved so that it becomes a place where every facility can be provided. So can we do that? Yess , we can do that. And how can we do that? With the help of science and technology. Who will do it? You and I will do that because we are the community and responsible citizens of India. I think we can definitely make all this happen.

Bhumi Bhati

हरियाणा कृषि उत्पादन में कई प्रदेशों से आगे है, ऐसे में अगर तकनीक को प्राथमिक क्षेत्र का साथ मिलता है तो उसके क्या परिणाम हो सकते हैं? जैसे आपने कहा की कृषि उत्पादन में हरियाणा की स्थिति अन्य राज्यों से बेहतर हैं, लेकिन एक समस्या जो हमारे सामने आती है की इतना अनाज उपजाने के बाद भी उसका संग्रहण हम ठीक से नहीं कर पाते, अब हम जिस विज्ञान और तकनीक के माध्यम से ये चाहते हैं की किसान जो उत्पादन कर रहे हैं उसको वो बाजार में बेच तो देते हैं लेकिन उनको उसकी असली कीमत नहीं मिलती, विज्ञान और तकनीक का इस्तमाल कर कि किसान अपने प्राइमरी प्रोडक्ट में वैल्यू ऐड कर के काफी धन कमा सकते हैं। "Waste to wealth" तकनीक से हरियाणा के किसान बहुत लाभान्वित हो सकते हैं, क्यूकी "Haryana is the food bowl of the country" तो उस फूड बाउल में अगर कुछ वैल्यू ऐड कर दी जाये तो हम नये प्रॉडक्ट्स ला कर हरियाणा को ना केवल भारत में बल्कि विश्व पटल पर ले जा सकते हैं।

आज भी जैसे हरियाणा में 60% आबादी है वो सीधा खेती से जुड़ी हुई है, तो इसमें एडवांस टेक्नोलॉजी कैसे सहायता कर सकती है और इससे क्या फायदे होंगे किसानों को ?

देखिए आज का किसान, आप देखेंगे कि हर परिवार चाहता है कि उसका बच्चा शहर जा के नौकरी करे और जो बच्चा है, युवा है, जो नयी पीढ़ी है, वो भी चाहती है कि वो रेगुलर किसान नहीं बने, उसको भी पढ़ने लिखने के बाद ऐसी इच्छा है की वो भी शिक्षा के द्वारा या विज्ञान के द्वारा खेती में क्या कर सकता है, आप रोज अखबार में पढ़ते होंगे आज कल बहुत से इंजीनियर जो मल्टी नेशनल कॉर्पोरेट जाँब्स छोड़ कर इस खेती में आते हैं और वो नये नये नवाचार ले के आ रहे हैं, आपने जो सवाल किया है की कैसे खेती में नयी तकनीक आ सकती है साइंस और टेक्नोलॉजी के माध्यम से पानी का उपयोग हम कैसे सुनिश्चित करे की वो काफी हो, जमीन का मॉइस्चर लेवल कितना हो, कौनसी फसल है उसमें कितनी



डॉ. रंजना अग्रवाल, निदेशक, सीएसआईआर

इरीगेशन होनी चाहिए इन सबमें हमे साइंस चाहिए फिर हमारा आर्टिफिशियल इंटेलिजेंस की जो हम बात करते हैं अलग अलग फसल की, कैसे सर्विलेंस कर सकते हैं, आप कौनसे पेस्टीसाइड डाल सकते हो, लेकिन विज्ञान के द्वारा आपको पहले से ही पता चल जायेगा की कोनसा कीड़ा आने वाला है या कोई बीमारी आपकी फसल में आने वाली है, तो ये बहुत सारी नयी चीज है, जो आर्टिफिशियल इंटेलिजेंस मशीन लर्निंग इंटीग्रेटेड फार्मिंग, एक फसल के बीच में दूसरी फसल कैसे ले कर आना है, ऐसी वैरायटी जो की कैंश क्रॉप हैं जिनको हम उगाने की बात कहते हैं, की आप गेहूँ, चावल, उगा रहे है लेकिन इनके साथ में अगर आप फूल भी उगा रहे है, सुगंधित पोथे उगा रहे है और उसे सुगंधित तेल बना कर बेच सकते है तो ऐसे इंटीग्रेटेड क्रॉपिंग कर सकते है और एसी बहुत सी चीज है जिनको किसान अपने खेत में लगा सकता है उससे ज्यादा आमदनी ले सकते है।

Monika Yadav



डॉ. कैलाश चंद्र शर्मा, उपाध्यक्ष, हरियाणा राज्य उच्च शिक्षा परिषद

किसानों एवं विद्यार्थियों को सीआईएसआर प्रौद्योगिकी से परिचित कराने के लिए गुरुग्राम विश्वविद्यालय ने सीआईएसआर, नई दिल्ली और डीएसटी, हरियाणा के सहयोग से 15 और 16 मार्च को विश्वविद्यालय के प्रांगण में 2 दिवसीय साइंस कॉन्क्लेव और एग्रो टेक एक्सपोजे 2023 का आयोजन किया।

एक्सपोजे के दौरान हमारी बातचीत विशिष्ट अथिति प्रोफेसर कैलाश चंद्र शर्मा जी (वाइस चेयरमैन हरियाणा उच्चतर शिक्षा परिषद) से हुई

क्या इस तरह के प्रोग्राम विद्यार्थियों के वैज्ञानिक दृष्टिकोण को बढ़ाने में मददगार है ?

बिल्कुल, इस तरह के प्रोग्राम विद्यार्थियों के तकनीकी ज्ञान को बढ़ाने में मदद करते हैं।

अगर हम विज्ञान और तकनीकी की बात करें तो आज ये काफी स्तर तक युवाओं के दिमाग पर असर डालती है, इस पर आप क्या कहना चाहेंगे ?

जी, ये युवाओं पर निर्भर करता है की वो विज्ञान और तकनीकी को कैसे इस्तेमाल करता, और ये जरूरी है की विद्यार्थियों को एक समय पर इसका सही ज्ञान हो तो तो तकनीकी काफी मददगार साबित हो सकती है। तकनीकी ने कृषि में नहीं, अपितु दूसरे क्षेत्रों को आगे बढ़ाने और काम को आसान करने में मदद की है।

आज हमने एक्सपोजे में आत्मनिर्भर भारत की बात की, आप के अनुसार कौनसी स्तर की कक्षा में विद्यार्थियों को ये इसकी जानकारी देना देश के लिए प्रगतिशील साबित होगा ?

नई शिक्षा नीति 2020 के अन्तर्गत इसका जिक्र साफ शब्दों में किया गया है, की विद्यार्थियों को आत्मनिर्भर बनाने के लिए तकनीकी ज्ञान पर जोर दिया जाएगा। और मेरे अनुसार अगर स्कूल स्तर पर इसकी वर्कशॉप व सेमिनार होने चाहिए।

श्रीमान कैलाश शर्मा जी ने कृषि में भविष्य रोजगार एवं कृषि में युवाओं की क्या भागीदारी हो सकती है उसको लेकर युवाओं को प्रेरित किया।

Herbal and organic products Developed by CSIR LAB

Manasvi



In the two-day science conclave CSIR labs from different parts of the country participated and exhibited various innovations done by them. CSIR lab, Lucknow showcased the herbal sindoor made by Rose petals. This organic sindoor is free from any toxins and doesn't cause health issues caused by other Sindoors made by chemicals. They have also developed gulal from waste flower and bailpatra from the temple. This herbal gulal does not harm skin. These innovative products also open new avenues for women to earn money. Greetings can be made from the packets of dehydrated floral provided by the CSIR lab. Similarly, resins are provided to make rakhi, earrings, keychains etc. CSIR lab also provides training to people to make these products and become financially independent.

CSIR labs from Lucknow, Bhopal and New Delhi participated in this exhibition.

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