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The 108th Indian Science Congress being inaugurated at Nagpur tomorrow by Prime Minister Sh Narendra Modi will focus on sustainable development with inclusive involvement of all sections of society including women.

CSIR

02nd January, 2023

The 108th Indian Science Congress being inaugurated at Nagpur tomorrow by Prime Minister Narendra Modi will focus on sustainable development with inclusive involvement of all sections of society including women.



Stating this in a pre-conference briefing to the media, Union Minister of State (Independent Charge) for Science and Technology & Earth Sciences, Dr. Jitendra Singh said that the focal theme of this year's Science Congress has been very thoughtfully finalized as "Science & Technology for Sustainable Development with Women Empowerment". He said, the Conference will deliberate on holistic growth, reviewed economies and sustainable goals, while at the same time address the possible obstacles to the growth of women in science & technology.

The Minister said, a unique hallmark of the Indian Science Congress this year would be "Children Science Congress" being organized to provide opportunity to children to use their scientific temperament and knowledge and to realize their creativity through scientific experiment.

Dr Jitendra Singh also pointed to a new event being added to this year's Science Congress in the form of what has been titled as "Tribal Science Congress". This will seek to showcase the empowerment of tribal women and also provide a platform for display of indigenous accent knowledge system and practice. The Plenary Sessions, the Minister informed, will feature Nobel Laureates, leading Indian and foreign researchers, experts and technocrats from a wide variety of fields, including space, defense, IT and medical research. The technical sessions will

showcase path-breaking and applied research in Agriculture and Forestry Sciences, Animal, Veterinary and Fishery Sciences, Anthropological and Behavioural Sciences, Chemical Sciences, Earth System Sciences, Engineering Sciences, Environmental Sciences, Information and Communication Science & Technology, Material Sciences, Mathematical Sciences, Medical Sciences, New Biology, Physical Sciences, and Plant Sciences, he added.

Dr Jitendra Singh also referred to a special attraction of the event, the mega expo “Pride of India” which will display the strengths and achievements of Government, Corporate, PSUs, Academic and R&D Institutes, Innovators & Entrepreneurs from all across the country. Prominent developments, major achievements and the significant contributions largely of Indian Science and Technology to the society will be showcased in the exhibition.

Apart from these 14 sections, there will be a Women’s Science Congress, a Farmers’ Science Congress, a Children’s Science Congress, a Tribal Meet, a section on Science and Society and a Science Communicators’ Congress. Among the top dignitaries who will grace the inaugural session are Governor of Maharashtra and Chancellor of Maharashtra Public Universities, Bhagat Singh Koshyari, Union Minister and Chairman of the Advisory Committee of RTMNU Centenary Celebrations, Nitin Gadkari, Union Minister of State (Independent Charge) for Science and Technology & Earth Sciences, Dr. Jitendra Singh and Deputy Chief Minister of Maharashtra, Devendra Fadnavis.

Vice Chancellor of Rashtrasant Tukadoji Maharaj Nagpur University, Dr. Subhash R. Chaudhari, and General President of Indian Science Congress Association (ISCA), Kolkata, Dr. (Mrs.) Vijay Laxmi Saxena will be prominently present. Vigyan Jyot - Flame of Knowledge - was conceived on the lines of the Olympic flame. It is a movement dedicated to nurturing scientific temper in the society, especially the youth. The flame, installed at the University campus, will continue to be alight until the end of the 108th Indian Science Congress.

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Union Minister Dr Jitendra Singh says, India is determined to live upto global benchmarks to be able to play a global role in years to come and realise the vision of PM Narendra Modi

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03rd January, 2023



Interacting with media on the sidelines of the Indian Science Congress here today, Union Minister of State (Independent Charge) for Science and Technology & Earth Sciences, Dr. Jitendra Singh said, India is determined to live upto global benchmarks to be able to play a global role in the years to come and realise the vision of Prime Minister Narendra Modi.

Dr Jitendra Singh said that the focal theme of this year's Science Congress as "Science & Technology for Sustainable Development with Women Empowerment" was quite appropriate and thoughtful. The Minister said, the Conference will deliberate on holistic growth, circular economies and sustainable goals, while at the same time address the possible obstacles to the growth of women in science & technology.

Dr Jitendra Singh said that in the last 8 and a half years of Modi Government, India has scaled many new heights in Science, Technology and Innovation and taken Bold Decisions like Unlocking the Space Sector to allow the private industry to realise the full potential of Aviation Ecosystem. He said to press persons in response to some questions that decisions like Cabinet Approval for Geospatial Guidelines, Drone Policy and Modi' Stress on Blue Economy will definitely propel India among the top 5 Nations in the World in the next decade.

Dr Jitendra Singh informed that India has reached at 40th Position in Global Innovation Index ranking 2022, 3rd in World Research Publications and 3rd in new start up Eco-system which indicates the special focus by Prime Minister on science, technology, and innovation which has fired the imagination of the youth in the country to innovate and solve problems with new ideas.

Dr Jitendra Singh said, by the year 2050, it is estimated that our global population will likely reach 9 billion people. And we have to ensure that every single one of these people will be able to enjoy a substantial quality of life without being detrimental to our natural resources & environment. He said, Sustainable Development can be said to be Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

The 108th Indian Science Congress will discuss issues of Sustainable development, Women empowerment and the role of Science & Technology in achieving this in all its dimensions, the Minister added. Dr Jitendra Singh said, STI and STEM will play crucial roles in realising Prime Minister Modi's vision and mission of an 'Atmanirbhar Bharat'.

Dr Jitendra Singh also informed that In 2023, India under PM Narendra Modi reiterates its stature in the international fora as the host of G20 as well as the Nation on whose proposal the world is observing International Year of Millets.

Secretary, Ministry of Science and Technology Dr S Chandrasekhar shared with media the whole itinerary G-20 as well as S-20 Meets of all the six Science Departments under Dr Jitendra Singh like DST, DBT, CSIR, DoS, DAE and Ministry of Earth Sciences.

Principal Scientific Advisor to Government of India, Dr Ajay Kr Sood, Secretary, DSIR, Dr N Kalaiselvi, Secretary, Ministry of Earth Sciences Dr M Ravichandran and senior officials of both the Ministries were present during the press conference.

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[Pib](https://www.pib.gov.in/)

Union Minister Dr Jitendra Singh briefs media about '2023 Science Vision' at New Delhi

CSIR

01st January, 2023



In a media interaction on the first day of the New Year, Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO, Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh today said, 2023 Science Vision will define India at 2047.

Dr Jitendra Singh added that the year 2023 also happens to be the first of the last 25 years or the last quarter of the calendar before independent India turns 100 at 2047 and realizes its century dreams.

This is also the year, the Minister said, when India under PM Narendra Modi reiterates its stature in the international fora as the host of G20 as well as the Nation on whose proposal the world is observing International Year of Millets.

Dr Jitendra Singh said, “The future belongs to those who have innovative ideas and out-of-box goals, and have the conviction and courage to achieve the same. The Minister emphasized that today we have a Prime Minister, who not only thinks out of box, but inspires 130 Crore Indians to take decisions with courage of conviction.

Referring to Prime Minister Narendra Modi's penchant for "Innovation", Dr Jitendra Singh pointed out to his Independence Day address, where he had said, "Till today we always remember our revered Lal Bahadur Shastri ji for his inspirational clarion call of Jai Jawan Jai Kisan meaning "Hail the Soldier, Hail the Farmer". Later Atal Bihari Vajpayee ji added a new link of Jai Vigyan which meant "hail science" and we gave it utmost importance. But in this new phase Amrit Kaal now it is imperative to add jai anusandhaan that is "hail innovation". "Jai Jawan Jai Kisan Jai Vigyan Jai Anusandhaan."

Dr Jitendra Singh underlined that in the Centre –State Science Conclave held in September, 2022 also, Modi had highlighted that in order to make India a global center of research and innovation in this Amrit Kaal, we have to work on many fronts simultaneously and stressed the need to take science and technology-related research to the local level.

Departments dealing with Science and Technology have already outlined their focus and thrust areas for the year 2023.

ISRO, after the opening up of Space Sector to private participants on the intervention of PM Modi, today has more than 100 StartUps in a short span of time. At the same time, its focus is on scientific exploration missions, Technology Demonstration missions and Human spaceflight programme "Gaganyaan" in 2024.

The department of Biotechnology (DBT) would take forward the successes of COVID-19 vaccine mission by investing in improvement of vaccines for the existing and emerging diseases. Significantly, major missions would also be launched on millets and patho-genomics of plant viruses in the International Year of Millets.

CSIR in 2023 will also focus on Green Hydrogen as it has already made a headway in Green Hydrogen indigenous as part of clean energy mission.

The Ministry of Earth Sciences (MoES) will focus on Deep Sea mission & technologies which

will add value to India's economy in the years to come. 2023 will also witness further headway in Blue Economy. Significantly, PM Modi referred to Deep Ocean Mission twice in his Independence Day address, first in 2021 and then again in 2022.

Department of Atomic Energy, DAE in its contribution to India's Electoral Management will deliver about 21.00 lakh equipment for the Election Commission of India which includes Ballot Units (BU), Control Units(CU) and Voter Verifiable Paper Audit Trail (VVPAT) to be completed by ECIL by Sept/Oct 2023.

Science leaders discuss India's path toward a knowledge intense economy

CSIR

04th January, 2023

Leaders of scientific departments of the Government of India chalked out the framework for making India a knowledge intense economy and deliberated on the challenges and opportunities in the path at the first plenary session of the Indian science congress at Nagpur.



Principal Scientific Adviser to the Government of India, Professor A K Sood underlined that while India has emerged as the third largest ecosystem for start-ups globally and the deep tech startup landscape in India has seen rapid growth, there is still space to boost it up specifically in areas like consumer technology, automotive, media and entertainment, agritech, energy utilities, and cyber security.

He added that convergence of technological revolutions in quantum science and technology, advanced communication technologies, clean energy, digital transformation, and one health mission is fuelling India's progress towards a global knowledge intense economy.

“Science will play a crucial role in India's transformation, and this transformation will be grounded in our labs. So it is the responsibility of us scientists to think how relevant our science will be to face future challenges. We have to frame our questions to address future problems, be it in manufacturing or sustainability issues,” said Dr. S Chandrasekhar, Secretary Department of Science and Technology (DST).

He underlined that science needs to imagine future factories and design manufacturing methods that suit them, match input with output so that waste is minimised, develop the

concept of circular science, generate agricultural technologies that can obviate the necessity of subsidies, and find alternate mobility options that are less polluting.

Dr. Chandrasekhar highlighted the necessity of developing the grassroots--global connect so that solutions from the grassroots can give clues to solve global problems.

Stressing on the need for sustainability in successful scientific solutions, N. Kalaiselvi, Director General CSIR, outlined India's challenges and opportunities in some areas like the environment and climate change, energy and mobility, food and nutrition, industry 4.0/5.0, ease of doing science and attracting and retaining talent which are critical to India in the next seven years. She said these will lay the foundation for the next 17 years to make India a developed country.

Dr. Alka Sharma, Senior Advisor Department of Biotechnology (DBT), emphasised on bio-manufacturing—manufacturing that uses biological systems replacing fossil fuel-derived chemicals, as the new wave of industrialisation. She added that it could lock atmospheric carbon in its stable form, paving the pathway that would make India a country leading the world in sustainability.

‘Give platform to children to become scientists’

CSIR-NEERI

05th January, 2023

“It is essential that children get encouragement to participate in science exhibitions which will pave way for them to become future scientists,” said Dr Satish Wate, former Director, CSIR-National Environmental Engineering Research Institute (NEERI) during the inauguration of Children’s Science Congress on the platform of 108th Indian Science Congress on Wednesday.



“You Learn, You Perform, You Exhibit”, was the slogan given by Dr Wate to the children who were participating in the event. He also spoke about ‘Self-Reliant India’ in relation to the aspects like the Covid-19 vaccine success in India, defence, agriculture and space missions.

Dr Wate urged children to draw inspiration from the former President Dr APJ Abdul Kalam. “India has progressed a lot in science and technology. Our children should get a proper platform to carry forward our legacy that we created in science and technology,” said Dr Wate. ‘Understanding Ecosystem for Health’, was the theme of Children’s Science Congress during the 108th ISC held at Rashtrasant Tukadoji Maharaj Nagpur University Campus. The objective of National Children’s Science Congress programme is to exhibit creativity and innovativeness, more particularly to solve societal problems. The inauguration programme saw the release of the Abstract Book of Children’s Science Congress at the hands of Dr Satish Wate and Dr Subhash R Chaudhari, Vice-Chancellor, RTMNU.

Dr Vijaylaxmi Saxena, General President, ISCA, Dr Manoranjan Mohanty, Head, NCSTC,

Government of India, Dr R Ramamurthy, Ex-General President, ISCA and Dr Nishikant Raut, Convenor, National Adolescent Science Conference also shared the dais.

Dr Chaudhary, in his speech said, “What we read by itself is not complete education, it is very important to adopt a research culture to complete that education and it is equally important to inculcate the temperament of research in children”. He said that if the children were shown the scientific direction, then they can easily solve even the biggest of problems.

Dr Vijaylaxmi Saxena, quoted Ravindranath Tagore - “The highest education is that does not merely gives us information but makes our life in harmony with all existence”. She said, “ISC is committed to spreading the concept of Sustainable Development of Research, Production and Environment”. She also spoke on science and technology being important pillars for the sustainable growth of our country. Dr S Rama Krishna, General Secretary ISA proposed a vote of thanks. The programme was conducted by Ankita Moon. The Children Science exhibition was also inaugurated on Wednesday at the hands of Dr Satish Wate. Large number of students from different parts of the country exhibited their innovations.

NCL Pune celebrates 73rd Foundation Day

CSIR-NCL

04th January, 2023

The 73rd Foundation Day program was held at National Chemical Laboratory (NCL) Pune on January 3, where prof Ajit Kembhavi, Professor Emeritus and Former Director, IUCAA, Pune, delivered the Foundation Day oration.

Prof Kembhavi spoke to the audience about “From Galileo to the James Webb Space Telescope: The Forward March of Astronomy.” During the event, the chief guest also launched the website for the Central Analytical Facility. Prof Kembhavi spoke about how astronomy has progressed from the time of Galileo Galilei (who made the first observations) in 1609 to the present.

“Galileo was a brilliant astronomer who invented the telescope and pioneered its use for observing the night sky. Galileo established the principle of inertia, which later became the foundation of the special theory of relativity,” prof Kembhavi stated.

Prof Kembhavi stated that an astronomer’s primary tools are imaging, photometry, spectroscopy, polarimetry, and variability studies. At the end of his talk, he responded to a question about why people study astronomy with a Sanskrit quote from the Ishopanishad. Earlier, in his welcome remarks, prof Ashish Lele, Director, CSIR-NCL, provided brief updates on the significant progress made in projects aligned with the roadmap of CSIR-NCL for the 2020-2030 decade.

“The roadmap was developed with some of the global megatrends such as climate change, sustainability, energy transition, supply chain disruption, self-reliance, and the emerging deep tech innovation system, among others, in mind.” prof Lele stated.

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[Hindustantimes](https://www.hindustantimes.com/)

Dr. Hrishikesh A. Tavanandi Of CFTRI Bags INSA Medal For Young Scientists Award

CSIR-CFTRI

04th January, 2023

Mysuru: Dr. Hrishikesh A. Tavanandi, currently serving as Training Coordinator on temporary basis in PMFME programme at CSIR-CFTRI, Mysuru, has been awarded the Medal for Young Scientist of the Indian National Science Academy (INSA), New Delhi. INSA is a body of Indian scientists founded in 1935 with the object of promoting science in India and harnessing scientific knowledge for the cause of humanity and national welfare.



One of the activities of INSA is to encourage and motivate young talent in Indian science. Towards this, INSA awards the Young Scientist Medal each year to Indian scientists below the age of 35 years and is considered to be “the highest recognition of promise, creativity and excellence in a young scientist,” said the official website of INSA.

In selecting Dr. Hrishikesh Tavanandi, INSA President Prof. Chandrima Shaha wrote, “You have shown great potential to be a leader in research. I sincerely hope that you will continue to strive hard to reach your potential and to prove your leadership in the coming years.”

Dr. Hrishikesh Tavanandi has carried out his research work under the guidance of Prof. KSMS Raghavarao (Professor-IIT Tirupathi, former Director, CSIR-CFTRI).

He has developed innovative and translatable hybrid and integrated separation processes to achieve gains in yield and quality of extractable, economically useful phytochemicals from

biomass. The noteworthy processes developed by him include, high quality bioactives from Spirulina and quality drying of micro-organisms and biomolecules by methods alternative to freeze drying.

CSIR-NGRI

04th January, 2023

CSIR-NGRI- An illustrious talk on " Evolution of Trans Himalayan Ladhak-Karokaram Himalayan magmatic arc" which was very interesting and informative to the scientific fraternity.

పరిశోధనలకు స్వర్ణధామం లద్దాఖ్

కశ్మీర్ వర్సిటీ మాజీ వీసీ ఆచార్య తలత్ అహ్మద్

ఈనాడు, హైదరాబాద్:

పెట్రోలజీ, జియోకెమిస్ట్రీ పరిశోధనలు చేయడానికి లద్దాఖ్ స్వర్ణధామం అని ఇనిస్టిట్యూట్ ఆఫ్ హిమాలయన్ జియాలజీ గవర్నింగ్ బాడీ ఛైర్మన్, కశ్మీర్ విశ్వవిద్యాలయ మాజీ ఉపకులపతి ఆచార్య తలత్ అహ్మద్ అన్నారు.



ఆచార్య తలత్ అహ్మద్ను సన్మానిస్తున్న ఎన్జీఆర్ఐ డైరెక్టర్ డాక్టర్ ప్రకాశ్ కుమార్

లక్షలాది సంవత్సరాల నాటి శిలాజాలు లద్దాఖ్లో కొనుగొన్నారని గుర్తు చేశారు. మంగళవారం హబ్బిగూడలోని జాతీయ భూ భౌతిక పరిశోధన సంస్థ(ఎన్జీఆర్ఐ) న్యూ ఇయర్ డే లెక్చర్-2023లో ఆయన ప్రసంగించారు. ఎన్జీఆర్ఐ పరిశోధనలను ఆయన ప్రశంసించారు. కార్యక్రమంలో ఎన్జీఆర్ఐ డైరెక్టర్ డాక్టర్ ప్రకాశ్ కుమార్, ప్రధాన శాస్త్రవేత్త డాక్టర్ ఆనంద్ కుమార్ పాండే పాల్గొన్నారు. సీనియర్ ప్రిన్సిపల్ సైంటిస్ట్ డాక్టర్ డి. శ్రీనివాస శర్మ సభికులకు ధన్యవాదాలు తెలిపారు.

Published in:

Eenadu, Namsthe Telangana

पांच और कंपनियों को सॉफ्ट कोक तकनीक दी

सिंफर

धनबाद, विशेष संवाददाता । सीएसआईआर-सीआईएमएफआर ने झारखंड-बिहार की पांच एमएसएमई कंपनियों को सॉफ्ट कोक बनाने की तकनीक हस्तांतरित की। वर्ष 1995-96 के दौरान, सीएसआईआर-सीआईएमएफआर के कोयला कार्बोनाइजेशन डिवीजन, तत्कालीन सीएफआरआई ने घरेलू उपयोग के लिए सॉफ्ट कोक बनाने की तकनीक विकसित की थी।

प्रौद्योगिकी ने व्यापक लोकप्रियता हासिल की है। 2020 के बाद से यह तकनीक पूरे भारत में 11 फर्मों को हस्तांतरित कर दी गई है। कंपनियां सीएसआईआर-सीआईएमएफआर तकनीक पर आधारित उत्पाद का उत्पादन और विपणन कर रही हैं। उक्त तकनीक को मंगलवार को पांच और फर्मों, अर्थात् एकराम सॉफ्ट



पांच कंपनियों को सॉफ्ट कोक तकनीक की जानकारी देने के बाद कंपनियों के साथ सिंफर के अधिकारी।

कोक इंडस्ट्रीज, धनबाद, सोनी इंफ्राटेक्चर, भोपाल, सोनी ट्रेडिंग कंपनी धनबाद, एसआरएस कोक इंडस्ट्रीज, बिहार, प्रकाश एसोसिएट्स, धनबाद को स्थानांतरित कर दिया गया है। मौके पर प्रो. अरविंद कुमार मिश्रा, निदेशक, डॉ आरवीके सिंह की उपस्थिति में समझौते पर हस्ताक्षर किए गए। सीआईएमएफआर की ओर से अमरनाथ, डॉ मनीष कुमार, जीके

बायन के अलावा पांचों फर्मों के प्रतिनिधि भी उपस्थित थे।

स्वदेशी रूप से उपलब्ध कोकिंग कोल संसाधनों की कमी को ध्यान में रखते हुए, मेटलर्जिकल कोक बनाने के लिए कोकिंग कोल का भारी आयात और गैर कोकिंग कोल/कमजोर कोकिंग कोल, कोयला कार्बोनाइजेशन रिसर्च ग्रुप, सीएसआईआर-सीआईएमएफआर ने व्यापक शोध के बाद प्रौद्योगिकी में

सुधार किया और विकसित किया। सॉफ्ट कोक बनाने की तकनीक वर्तमान में विकसित प्रौद्योगिकी के माध्यम से उत्पादित सॉफ्ट कोक का उपयोग घरेलू के साथ-साथ लौह उद्योगों के लिए भी किया जा सकता है। उत्पादित सॉफ्ट कोक कोकिंग कोयले की आवश्यकता को आंशिक रूप से प्रतिस्थापित करता है और इस प्रकार कोकिंग कोयले के आयात को कम करने में मदद करेगा।



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