

STRIDES

Science, Technology, Research, Innovation & DEvelopmentS

BRINGS NEWS ON S&T DEVELOPMENT FROM DST SUPPORT AND BEYOND

EDITORIAL

Science impacts when its benefits reach the people and this is effective only when states participate in India's science and technology revolution. For the first time, leaders from the centre and the states who drive S&T in the country came together at the first ever Centre State S&T Conclave in the month of September.

Inauguration of the conclave by the Prime Minister was a major step to encourage the participation of the states in the S&T revolution of the country. This could add a new dimension and facilitate the progress of science in the country, rendering a new meaning to inclusivity in S&T.

The month also saw students from schools across India receive awards for their science and technology based innovations as also inauguration of a dashboard that gives complete insight of DST funding and can drive the process of building and harnessing the capability of the department to analyse their own progress.

Apart from this, a DST supported startup gave a breath of fresh air to bikers with a pollution preventing helmet, while new biogas-based radiant floor heating system brought warmth to Leh village and a model to trace elusive exo-moons was formulated.

The newsletter also features the Punjab Science and Technology Council and its achievements.

—DR AKHILESH GUPTA, EDITOR-IN-CHIEF

COVER STORY



PM inaugurates Centre-State Science Conclave in Ahmedabad via video conferencing

The Prime Minister emphasized that Science is the basis of solutions, evolution and innovation. And, it is with this inspiration, that today's new India is moving forward with Jai Jawan, Jai Kisan, Jai Vigyan as well as Jai Anusandhan.

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Select students from across India receive awards for their innovative ideas

60 young students from schools across India received awards for their Science and Technology based innovations from the Union Minister Dr Jitendra Singh at Vigyan Bhawan.

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Editorial
Cover Story

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Union Minister Dr Jitendra Singh inaugurated dashboard, giving complete insight of DST funding

Union Minister Dr. Jitendra Singh, inaugurated the dashboard of DST-DSU that gives complete insight of DST funding and can drive the process of building, harnessing and augmenting the monitoring, as well as statistical and data analytical capabilities of the department.

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New biogas-based radiant floor heating system to bring warmth to Leh village

In a small freezing cold village called Thiksey in Leh, the extremely cold temperatures at the place has led people to cut down trees in large amount to obtain wood for burning in cold winters.

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Scientists formulate model to trace elusive exo-moons from JWST data

Scientists have developed a model

to trace the so far elusive exomoons – natural satellites that revolve around exoplanets (planets orbiting stars other than the Sun) with the help of the James Webb Space Telescope (JWST), launched in December 2021.

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A breath of fresh air for bikers

An anti-pollution helmet developed by a Delhi based startup can help 2-wheeler riders breathe clean air. The helmet developed by Shellios Technolabs has a Bluetooth-enabled app that lets the rider know when the helmet requires cleaning.

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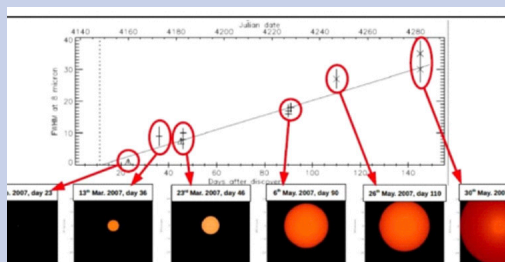


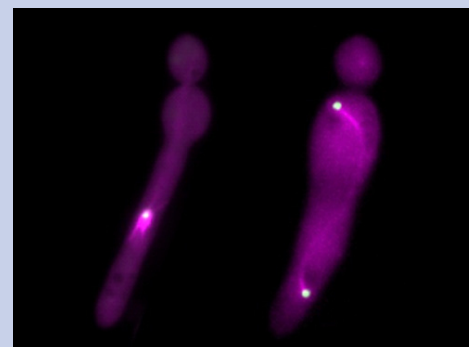
Figure 2: Evolution of the size of the circumstellar dust shell around V1280 Sco as seen by MIDI/VLTI (Chesneau et al., Astronomy & Astrophysics, 2008).

Study of dust from cosmic dance of a white dwarf and companion star could unravel mysteries behind start of life

In the winter months of 2007, astrophysicists from all over the world had made a beeline to observatories on mountaintops to observe a bright explosion born out of the cosmic dance of a white dwarf and its companion star resulting in

thick dust around an imploding novae.

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Newly identified gene could be clue to treatment of fungal infection in immuno-compromised patients

A newly identified gene can hold the key to prevent fungal infection Candidiasis that often affects intensive-care unit (ICU) patients, cancer patients and patients receiving immunosuppressive therapy.

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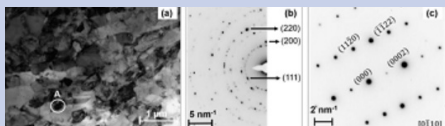
Traditional art products of Tamil Nadu revived by exploring its scientific properties

Pattamadai mat, a mat made by weaving or interlacing korai grass with the cotton threads, has been found to have soundproofing properties that can be used for noise guarding classrooms as well as recording studios against external noise disturbances.

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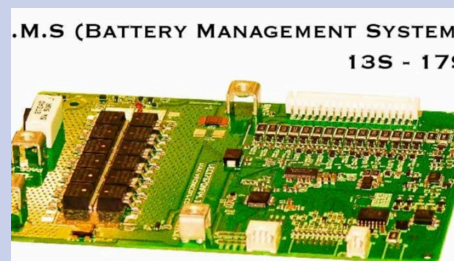
POPULAR SCIENCE STORIES



New method of developing alloys can produce ultra high strength steels for high temperature applications

A new method of developing alloys produces the best combination of yield strength and fracture strain.

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Intelligence system and health monitoring solution for EVs can ensure their efficient performance

A new complete vehicle intelligence system and health monitoring solution for electric vehicles (EV) can ensure safe and high EV performance, which will occupy a major part of the next-generation transportation system.

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New device that can extract water from air developed for all geographical locations

A new device that can extract

water from air can be used for indoor water harvesting from the atmosphere.

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Hydration of proteins could act as a potential marker for an early detection of neuro-degenerative diseases

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Union Minister Dr Jitendra Singh calls for linking StartUps with Industry right from the beginning as equal stakeholders in order to ensure sustainable Start-Ups

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Scientific administrators discuss pathways to address issues and specific technology needs of the states

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Roadmap to augment financial resources for R&D discussed

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Technological interventions for processing, product development & sustainability could improve farmers income: Experts

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Experts discuss the path towards clean energy in cooperation with states

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Water-related innovations can facilitate their sustainable consumption: Experts

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Union Minister Dr Jitendra Singh announces setting up of a Dashboard to share the best technology practices among the Centre and the States

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DST Secretary inaugurates the Maharishi Charaka Medicinal Plant Garden at IASST, Guwahati

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INTERNATIONAL

Union Minister for Science and Technology Dr Jitendra Singh addresses 10th BRICS meet, calls for joint fight against common challenges

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Industry can be roped in for increasing funding of C V Raman International Fellowship for African Researchers: DST Secretary

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NEW INITIATIVES

► India Science Research Fellowship (ISRF) Call FY2022-23

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► Call for Nomination - National Science Chair

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► Call for Establishment of Community Resilience Resource Centres (CRRCs)

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► DST-MSHE Joint Call 2022

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► Call for applications for participation in the 72nd Meeting of Nobel Laureates at Lindau, Germany

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Punjab State Council for Science & Technology augmenting Science Technology Innovation Ecosystem of Punjab

Punjab is one of the most vibrant and progressive States known for its technological strengths in agriculture and manufacturing. Punjab State Council for Science & Technology (PSCST), set up in 1983 as think-tank of Department of Science Technology & Environment, Govt. of Punjab and State level node of Department of Science & Technology, Govt. of India is in true sense developing Science Technology and Innovation (STI) as the strong fulcrum to support levers of Government and Industry.

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mediacell.dst@gmail.com

Editor-in-Chief: Dr Akhilesh Gupta

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