

STRIDES

Science, Technology, Research, Innovation & DEvelopmentS

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

MESSAGE

FROM THE SECRETARY'S DESK

Welcome to the first issue of the DST communication newsletter “STRIDES”—Science, Technology, Research, Innovation & Developments and congratulations to Vigyan Prasara for bringing it out. September is a good time to start the communication initiative as the nation basks in the glory of its second moon mission and the rain drenched country provides fertile climate to trigger new ideas in all areas. At the same time, the DST supported Vigyan Samagam exhibition is in full swing attracting young talent to science.

The newsletter promises you the excitement of reading through interesting stories on ground breaking research, their translation to technologies that benefit people, stories of profound science as well as incremental science. New initiatives of DST like cyber physical systems, quantum computing as well as stories of how we are connecting science to society is being presented in a compelling manner, which is both informative and easy, to read. I encourage the team in their endeavour and wish you a happy reading.

—PROF. ASHUTOSH SHARMA

COVER STORY



VIGYAN SAMAGAM EXHIBITION BRINGS WORLD MAJOR MEGA SCIENCE PROJECTS TOGETHER

Vigyan Samagam Exhibition, supported by DST & DAE, brings several global, collaborative Mega Science projects like LIGO, CERN, FAIR & SKA under one roof for the first time in the world. It ignites the minds of students, academia and industry to gravitate towards working for them.

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VIGYAN PRASARA
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NEWS HIGHLIGHTS



ECIL manufactured power converters will build particle accelerator in Germany

The Electronics Corporation of India Limited (ECIL) has manufactured the most modern ultra stable high power converters for FAIR (Facility for Antiproton and Ion Research), an upcoming international accelerator facility at Darmstadt, Germany which creates a universe within the laboratory and generates extreme conditions like those during stellar explosions.

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New additions to India's IPR battalion

The Department of Science and Technology has initiated its month long training for women scientists on Intellectual Property Rights (IPR). A group of 120 women scientists from different corners of India are gearing up to create, protect and manage intellectual property in India.

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DST celebrates Independence Day with technologies benefiting people

India's Science, Technology and Innovation (STI) Policy focuses on sustainable growth and inclusive development. In pursuance of this, DST is supporting scientific and technological developments to make lives of people better. This support has translated to numerous sustainable technologies.

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India & Netherlands discuss new S&T collaborations

Dr Harsh Vardhan, Hon'ble Minister for S&T, Earth Sciences and Health and Family Welfare and Mr Maarten Camps, Secretary General, Ministry of Economic Affairs and Climate Policy, Netherlands discussed strengthening collaborations in Health, Water & Agriculture. Potential for new tie-ups in Energy, Cyber Security, Education, Industry, Space and Start-ups in DST-CII Technology Summit during 15-16 October, 2019 were also discussed.

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FORTHCOMING EVENTS



DST-CII Technology Summit 2019

15-16 OCTOBER 2019, NEW DELHI

The Technology Summit 2019 provides a high profile and wide-ranging platform for businesses, knowledge institutions and government to forge partnership and boost innovation, investment and trade.

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India International Science Festival (IISF) 2019

5-8 NOVEMBER, 2019, KOLKATA

The aim is to engage public with science and celebrate the joy of science and show the ways how science, technology, engineering and mathematics (STEM) provide solutions to improve our lives.

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DST OVERSEAS

The 4th Joint Committee Meeting (JCM) on Science and Technology between India and Sri Lanka was held on August 14, 2019 at New Delhi, India. Both sides agreed to initiate co-operation in the area of Renewable energy, Information and Communication Technology (ICT) & Science popularization and Technology incubation. They also agreed to accelerate and further strengthen the cooperation in the area of Food Technology and biofertilizers. India and Sri Lanka will work together for human capacity building by training and fellowships for student and scientist. They also discuss developing mechanisms to deploy affordable technologies to improve the life of their societies.



New soil monitoring technology can help farming decisions

Soilsens — a low cost smart soil monitoring system has come as a potential help to farmers facing farming decision predicaments. Soilsens is developed by Proximal Soilsens Technologies Pvt. Ltd, a startup incubated at Indian Institute of Technology Bombay (IITB), Mumbai with support from the Department of Science and Technology (DST) and Ministry of Electronics and Information Technology (Meity). Proximal Soilsens started with a mission to build affordable technologies for precision farming.

The system is embedded with soil moisture sensor, soil temperature sensor, ambient humidity sensor, and ambient temperature sensor. Based on these parameters, farmers are advised about optimum irrigation through a mobile app. This data is also available on cloud. There is also a portable soil moisture system.

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Women entrepreneurs take flight with disruptive technologies

A bunch of young women entrepreneurs with high spirits have set up their firms based on disruptive technologies like Artificial Intelligence (AI), Augmented Reality, 3D printing and technologies for the blind.

They have brought to people products like soft skill assessment tools, on-line and offline shopping platforms, medical and dental 3D printing services and inclusive learning resources for visually impaired people.

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▶ NEW INITIATIVES

- ▶ STI Hubs for Development of SC & ST Communities—Call for Proposals
- ▶ Announcement of India-Bulgaria Joint Research Projects 2018
- ▶ Announcement of India-Australia Joint Research Projects 2018
- ▶ India-South Africa—Call for Joint Proposals 2019

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KNOW THE MINISTER

DR HARSH VARDHAN



Hon'ble Union Minister for Science & Technology, Earth Sciences and Health & Family Welfare

Dr Harsh Vardhan is known for his reforms in India's public health system & is committed to promote synergies between industry and scientific research institutions. Starting career as an ENT surgeon, his public life is marked for steering the Pulse Polio programme leading to Polio Free India.

He conceived the first ever anti-tobacco legislation in India to reduce its consumption. The World Health Organisation has recognised his contribution to society and awarded him the Director-General's Commendation Medal at a prestigious function held in Rio de Janeiro, Brazil, in May 1998. It was an honour previously bestowed on the likes of US President Bill Clinton and football superstar Pele. His support and guidance has contributed a lot to boost S&T in the country.

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FEATURED INSTITUTION



Survey of India using new technologies for mapping and data generation

The organization has recently taken up several projects using latest geospatial technology for faster and accurate mapping of the country as per the requirements of user Ministries and Organizations under flagship projects of Government of India directly benefiting the citizens of the country.

In year, 2018 Survey of India (SoI) has launched web portals for Public and Government departments and organizations to facilitate the access of the digital map or data to every citizen of the country and Centre and State organizations with the objective to enable decision making for planning, development, monitoring and governance.

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This e-newsletter created by the DST communication team at Vigyan Prasar brings you brief information on scientific achievements and activities supported by DST. Each brief, links to detailed information on DST website. If there is any DST supported popular science event which requires wider outreach please share it with us. We also welcome your feedback/suggestions at

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