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*Ask the right questions, and nature will open the door to her secrets
- Dr. C.V. Raman, The Nobel Prize in Physics 1930*

MoU to Promote Science Communication and STI Policy Research Signed Between NIScPR, New Delhi & J.C. Bose University of Science and Technology

To promote Science Communication and STI Policy Research, CSIR-National Institute of Science Communication & Policy Research (NIScPR), New Delhi and J.C. Bose University of Science and Technology, YMCA, Faridabad signed a Memorandum of Understanding (MoU) for collaboration and networking. The collaboration aims at opening new avenues for knowledge sharing and skill development in science communication and STI policy research and would promote scientific and technological research.

Successful Flight of Indigenously Designed & Developed Hansa New Generation (NG) Aircraft

CSIR-National Aerospace Laboratories (NAL), Bangalore indigenously designed and developed Hansa New Generation (NG) aircraft made its successful maiden flight on 3 September 2021 from HAL airport. Hansa New Generation (NG) aircraft flew at an altitude of 4000 ft. and gained a speed of 80 knots. The unique features of Hansa-NG are:

- Glass cockpit with cabin comfort,
- High efficient digitally controlled engine
- Electrically operated flaps,
- Long endurance, low acquisition and
- Low operating cost.

Startup from IIT Ropar Developed Living-Plant Based Air Purifier “Ubreathe Life”

Startup company ‘Urban Air Laboratory’ from IIT Ropar developed and claimed world’s first, state-of-the art ‘Smart Bio-Filter’ that can make breathing fresh. Phytoremediation is a process by which plants effectively remove pollutants from the air. The ‘Plant based’ smart air-purifier has been incubated at IIT Ropar, which is a designated iHub - AWaDH (Agriculture and Water Technology Development Hub) by the Department of Science and Technology, Govt. of India. The novel technology used in this product is ‘Urban Munnar Effect’ along with patent pending “Breathing Roots” to exponentially amplify the phytoremediation process of the plants. The startup reported that the specific plants tested for air-purification included Peace Lily, Snake Plant, Spider plant etc. and all have given good results in purifying indoor-air.

IISc & ISRO Researchers Developed a Modular Device for Extra-Terrestrial Experiments

A modular, self-contained device has been developed by the Researchers at the Indian Institute of Science (IISc) and Indian Space Research Organisation (ISRO) to cultivate micro organisms which could enable scientists to carry out biological experiments in outer space. ISRO & IISc researchers also reported that understanding how such microbes behave in extreme environments could provide valuable insights for human space missions such as ‘Gaganyaan’, India’s first crewed spacecraft set to be launched in 2022.

Special Update: Quantum Computer Simulator Toolkit Launched by Ministry of Electronics & Information Technology

Ministry of Electronics & Information Technology to enable researchers and students to carryout research in Quantum Computing in a cost effective manner launched Quantum Computer Simulator Toolkit – Qsim. The Ministry also informed that QSim is an outcome of the project “Design and Development of Quantum Computer Toolkit (Simulator, Workbench) and Capacity Building”, which is India’s first initiatives to address the common challenge of advancing the Quantum Computing research frontiers and future demands of computing power.