





## EDITOR'S *message*

# Harnessing More Atoms Empowering More Lives


 Nuclear R&D is advancing at a remarkable pace, blending fundamental research with cutting-edge technology development. Scientific community worldwide, including in DAE institutes such as BARC are deepening their understanding of some of the most intriguing aspects in S&T that are considered to be critical to advancement of nuclear energy and in pursuit of fulfilling 'Net Zero' commitments.

The Department of Atomic Energy, building on its seven decades of remarkable achievements, has outlined a new 'Amritkaal' Vision aimed at scaling newer heights in nuclear power. This Vision aims to reinforce India's global nuclear leadership and improve citizens' quality of life by harnessing the full power of the atom.

 As we move from the notable advancements in nuclear physics and nuclear astronomy within BARC and DAE highlighted in the previous newsletter, this issue showcases some of the interesting multidisciplinary research outcomes from BARC, along with visits from several distinguished guests to our campus.

BARC is intensifying its fundamental research on matter and materials while accelerating technology development to enable faster nuclear reactor deployments through greater collaboration and localization with private sector partners.

As a leading institution, it has the unique opportunity to collaborate with both policymakers and the wider scientific community. Dr. P.K. Mishra, Principal Secretary to the Prime Minister, served as the chief guest at the annual Graduation Function for the flagship OCES Programme 2024 under the auspices of BARC Training School, which marked the induction of 250 successful Scientific Officers.

 At the prestigious Trombay Colloquium, two eminent scientific figures currently serving in the Government of India - Dr. Trilochan Mohapatra and Professor Abhay Karandikar - delivered captivating and deeply insightful talks.

One of BARC's key missions is to showcase its achievements with a broader audience, and this time, senior women scientists were seen leading the outreach efforts in the national capital.

Finally, by harnessing more atoms, we are empowering more lives - ensuring that nuclear science and technology continues to shape a better, more sustainable and equitable future.

**Mr. Manoj Singh**

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