



**Annual Report
2022-23**

the close connection between teaching and research. He also talked about the increasing importance of computational approaches in research.

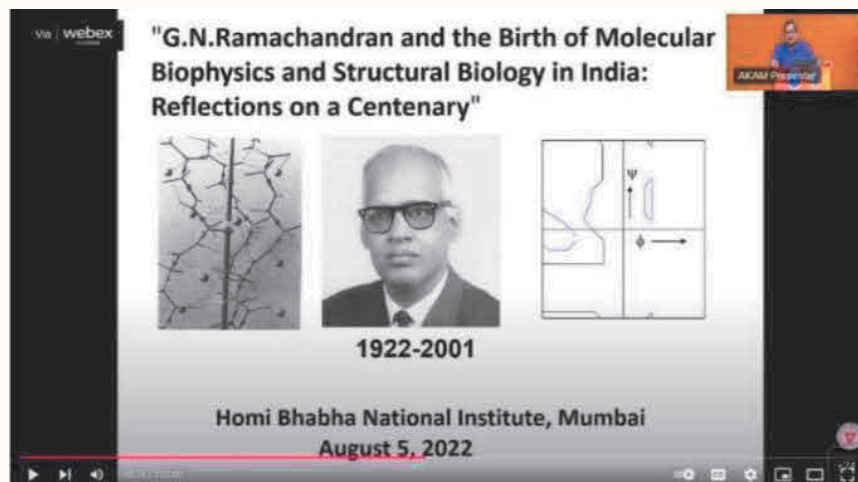
● **Events organized in Commemoration of Azadi Ka Amrit Mahotsav**

(i) **Special Webinar on the topic “G. N. Ramachandran and the Birth of Molecular Biophysics and Structural Biology in India” as a part of HBNI Eminent Lecture Series**

HBNI has been organizing different activities from August 2021 onwards as a part of the celebration of “Azadi Ka Amrit Mahotsav,” a country-wide campaign launched by the Government of India, as India completes its 75 years of independence. The organization of special lectures/webinars by eminent scientists and engineers, and technologists in the country on various subject areas has been one such activity. In continuation of such activities, HBNI organized a special webinar by Prof. P. Balram, DST-YOS Chair Professor, National Centre for Biological Sciences, Bengaluru, and Former Director, IISc, Bengaluru on August 5, 2022, on the topic “G. N. Ramachandran and the Birth of Molecular Biophysics and Structural Biology in India.’ The talk traced the life and times of Dr. G. N. Ramachandran, a pioneer in the field of biomolecular structure and conformation and highlighted the trail of his research work that has illuminated the understanding of protein structures. Incidentally, 2022 is the birth centenary year of Dr. G. N. Ramachandran whose birthday falls on October 8, 2022.

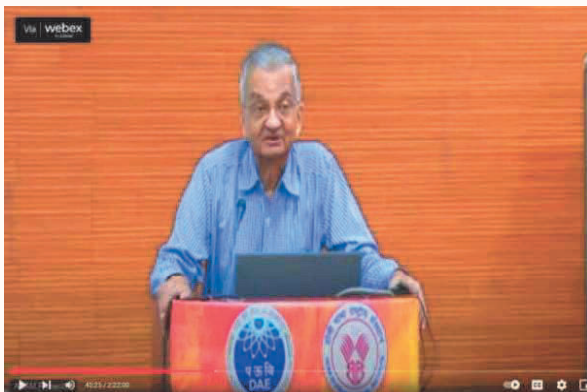


Prof. P. D. Naik welcoming the gathering (left) and Prof. P. R. Vasudeva Rao giving introductory remarks (right) on the special webinar by Prof. P. Balram



Prof. P. Balram delivering his talk

On the occasion, the results of the poster and essay competitions organized by HBNI as part of the “Azadi Ka Amrit Mahotsav” celebration were announced and an e-book titled “Atomic Energy in India: Achievements since Independence” was also released by Prof. Anil Kakodkar, Chancellor, HBNI. The book has been jointly edited by Prof. A. K. Tyagi, Director, Chemistry Group, BARC and Prof. P. R. Vasudeva Rao, Former Vice Chancellor, HBNI.



Prof. Anil Kakodkar giving his address (left); Results of Poster Competition conducted by HBNI as part of Azadi Ka Amrit Mahotsav being announced (right)



E-book, “Atomic Energy in India: Achievements since Independence,” being released by Prof. Anil Kakodkar, Chancellor, HBNI

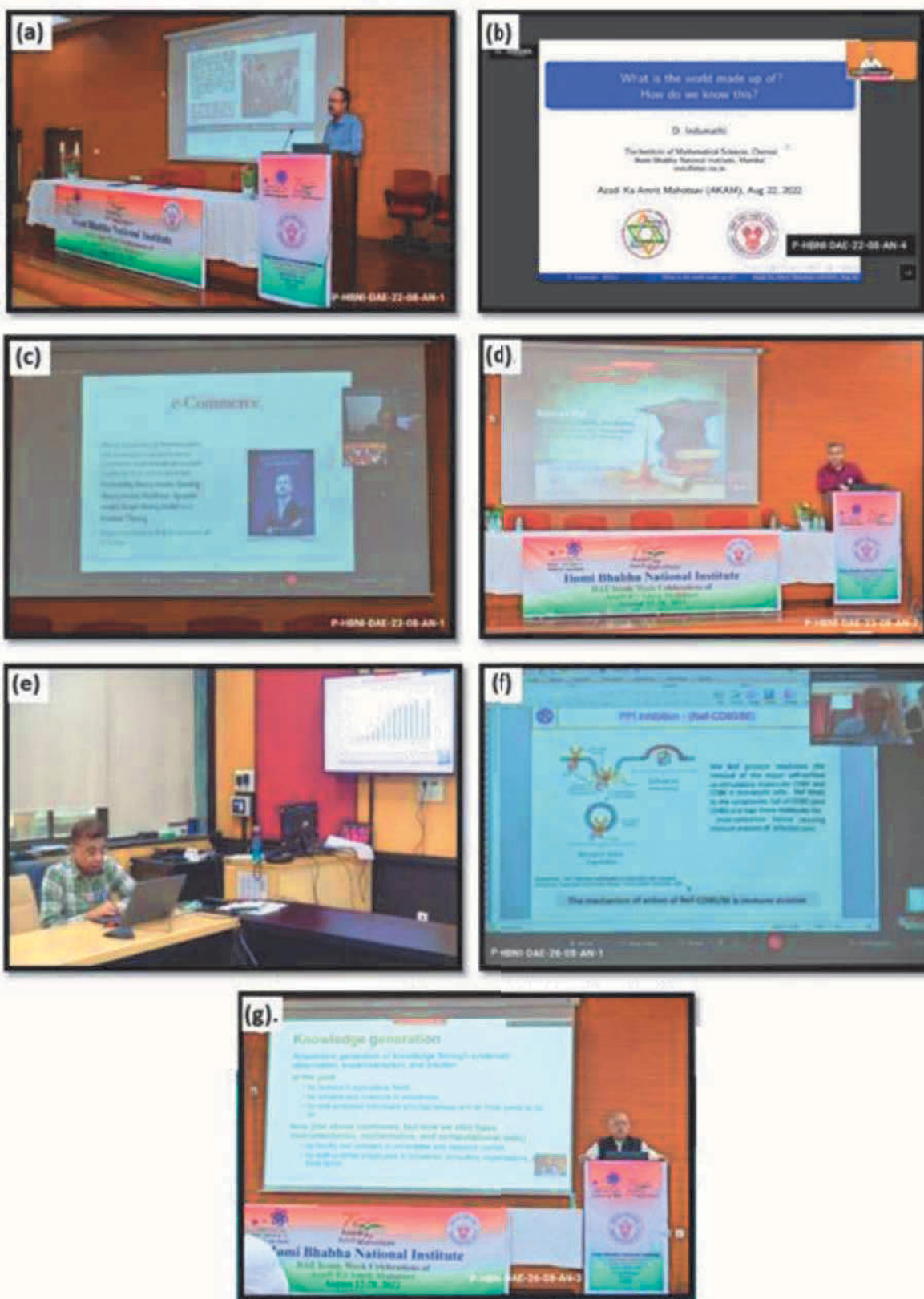
(ii) **HBNI-DAE Iconic Week Celebrations of “Azadi Ka Amrit Mahotsav” (August 22-28, 2022)**

As part of DAE iconic week celebration of “Azadi Ka Amrit Mahotsav”, HBNI organized special lectures by eminent speakers on the current research areas and future challenges for the benefit of students/faculty of educational institutes across all over India at the multipurpose hall of BARC Training School, Mumbai during August 22-28, 2022. The details are given in the table below. The talks were streamed live on the YouTube, and recordings of the talks are available on the YouTube channel of HBNI, **HBNI Webinar**.

HBNI also organized talks for the popularization/promotion of science in association with four higher educational institutions in and around Mumbai city, viz., Birla College, Kalyan, VG Vaze College, Mulund, Sophia College, Cumballa Hill, and Wilson College, Chowpatty to create awareness among graduate and postgraduate science students regarding the career opportunities in basic science, i.e., physics, chemistry, biology and encouragement for a research career.

Talks held as part of Celebration of DAE Iconic Week (August 22-28, 2022)

Date	Topic of the Talk	Speaker
22.08. 2022	Opportunities and Challenges on Energy Storage Materials for Electric Vehicle Technology	Dr R. Gopalan, Regional Director, ARCI, Chennai
	What is the world made up of? How do we know this?	Prof. D. Indumathi, IMSc, Chennai
23.08. 2022	Challenges in Number Theory	Prof. R. Thangadurai, HRI, Prayagraj
	Challenges in Chemical Science	Prof. Saurav Pal, Director, IISER, Kolkata
24.08.2022	Research Opportunities Available in HBNI/DAE in the Area of Engineering Sciences	Prof. B. K. Dutta, ICP, HBNI & Team
26.08.2022	Opportunities in Life Science Research	Prof. Ram Viswakarma, Distinguished Scientist, CSIR
	Relating Research to National Development	Prof. R. B. Grover, Emeritus Professor, HBNI



Glimpses of the special lectures given by eminent speakers; (a) Dr. R. Gopalan (b) Prof. D. Indumathi (c) Prof. R. Thangadurai. (d) Prof. Sourav Pal (e) Prof. B. K. Dutta (f) Prof. Ram Viswakarma (g) Prof. R. B. Grover delivering their talks in the HBNI-DAE Iconic Week Celebrations of “Azadi Ka Amrit Mahotsav”



Glimpses of the college visits conducted by HBNI faculty members; (a) Talk by HBNI resource person at B.K. Birla College of Arts, Science and Commerce, Kalyan, (b) A student receiving Quiz Prize, (c) HBNI resource persons along with the Quiz competition winners of V. G. Vaze College, (d) Talk by HBNI resource person at Sophia College, (e) HBNI resource person delivering lecture at Wilson College, (f) HBNI resource persons along with student volunteers from Wilson College