



**The National Academy of Sciences, India**  
**(Mumbai Chapter)**

*in association with*

**Atomic Energy Junior College, Anushaktinagar, Mumbai**

*organizes*

***INSPIRE LECTURE***

**TITLE: CHEMISTRY FOR HEALTHCARE**

**SPEAKER: Dr. Sharmistha Dutta Choudhury**  
**Chemistry Group, BARC**

**DATE & TIME: 15<sup>th</sup> October, 2022 (Saturday)**  
**at**  
**8:30 h**

**VENUE: Atomic Energy Junior College**  
**Anushaktinagar**  
**Mumbai 400094**



## *Lecture Abstract & Speaker profile*

**TITLE:** **“CHEMISTRY FOR HEALTHCARE”**

**ABSTRACT:**

“Good Health and Well-being” is one of the 17 Sustainable Development Goals established by the United Nations. The chemical sciences contribute in improving healthcare through basic research that helps in understanding the mechanisms underlying disease, through development of improved means of diagnosis and through optimizing the development of effective drugs. This lecture will discuss through simple examples how chemistry plays a role in all stages of healthcare—from prevention and detection of diseases, to their cure. Glimpses of the work carried out in Chemistry Group, BARC, will be provided to motivate students and make them aware of the exciting opportunities for research in this area.

**BIOGRAPHY:**

**Dr. Sharmistha Dutta Choudhury** is a Scientific Officer at Bhabha Atomic Research Centre, Mumbai. She obtained her M. Sc. degree in Chemistry with gold medal from Jadavpur University, Kolkata and carried out her Ph. D. research at Saha Institute of Nuclear Physics, Kolkata. She was a visiting researcher at University of Maryland, Baltimore, USA. Her research interests include study of photophysical processes in supramolecular and plasmonic systems and investigating new luminescent materials. She is the recipient of Young Scientist Awards from the National Academy of Sciences India (NASI), Department of Atomic Energy (DAE), and Indian National Science Academy (INSA). She also received Women Excellence Research grant from SERB, DST.

## About The National Academy of Sciences, India (Mumbai Chapter)

The National Academy of Sciences, India (NASI), one of the oldest Science Academies in India, was established in 1930 by *Prof. Meghnad Saha*. It is located in Prayagraj, Uttar Pradesh. Currently the Academy has more than 1900 Fellows, honorary Fellows and foreign Fellows from various disciplines of Science and Technology. The Academy has been effectively pursuing its mandate '*Science & Society*' since its inception through its various scientific programmes/ activities by involving a large number of scientists, academicians, educationists and industrialists from all across the country with the support of its 22 Local Chapters spread all across the country to disseminate and communicate the scientific knowledge in different regions/parts of the nation.

NASI - envisions the cultivation and promotion of Science & Technology in all its branches through - (a) promoting scientific and technological research related to the problems of societal welfare; (b) publication of proceedings, journals, memoirs, transactions and other works as may be considered desirable; (c) organizing meetings and hold discussions on scientific and technological problems; (d) undertaking, through properly constituted committees and bodies, the scientific work(s) of technological or public importance; (e) cooperating with other organizations in India and abroad, having similar objects, and to appoint representatives of the Academy to act on national and international bodies; (f) securing and managing funds and endowments for the promotion of science and technology; (g) organizing a Science Library; (h) performing all other acts, matters and things that may assist in, conduce to, or be necessary for the fulfillment of the above mentioned aims and objects of the Academy; (i) creating an adequate impact of the Academy all over the country.

Mumbai Chapter (NASI-MC) is one such chapter of the NASI. In sync with the vision and mission of the Academy, the NASI-MC organizes a number of activities throughout the year in different institutions in Mumbai and adjoining areas. (For further details of the Academy, please browse through the official website of the Academy: <http://www.nasi.org.in>)