



2nd QUARTERLY REPORT ON AZADI KA AMRIT MAHOTSAV (AKAM) PROGRAM

(December 2021 – February 2022)

As per the directive of the Department of Atomic Energy, Institute of Physics, Bhubaneswar is celebrating India's 75th year of Independence as '*Azadi Ka Amrit Mahotsav*'. Following activities have been carried out under this program.

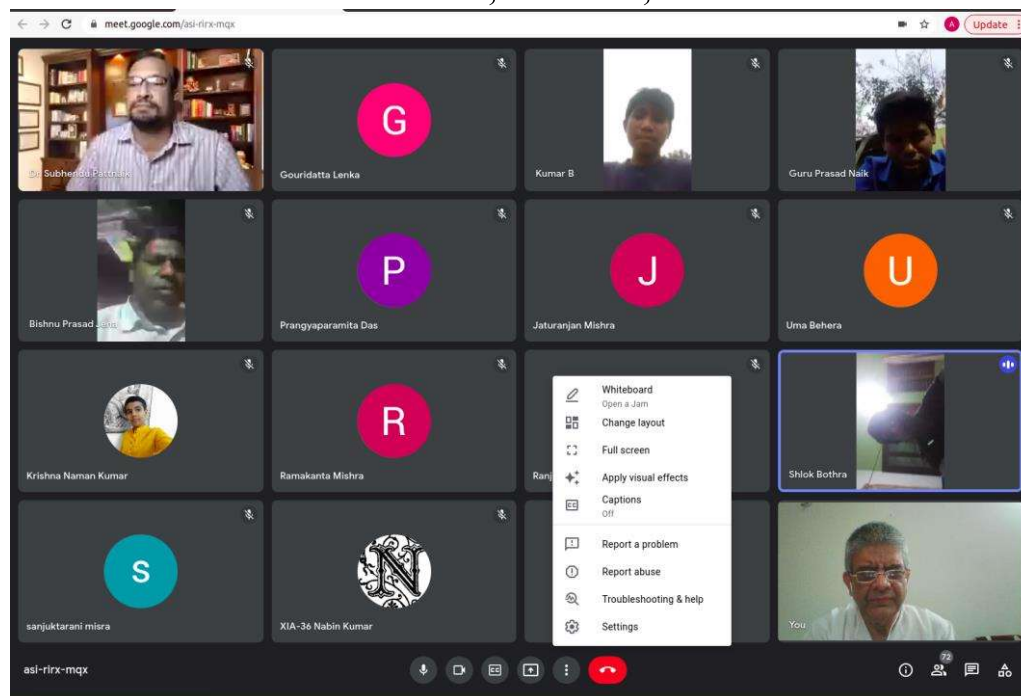
PART A

December 2021

(1) Kalinga TV program on Samanta Chandrasekhara

Kalinga TV presented a half hour program on Dec 12 on Samanta Chandrasekhara, the legendary 19th century Indian astronomer, which included interviews of Prof. L. Satpathy (retd. Professor, IOP) and Prof. A.M. Srivastava (Professor, IOP). Prof. Satpathy and Prof. Srivastava discussed great works of Samanta Chandrasekhar, the naked eye astronomer, his extremely precise measurements, and his exceptional experimental skills in making various instruments for astronomical measurements with everyday materials such as wooden sticks and bamboo. They emphasized the importance of bringing his works to limelight, and recognizing him as a role model as an exceptional experimental physicist.

POD Online Session No. 5, Jan 15th, 2022



YouTube link for the session: https://www.youtube.com/watch?v=rIBlc_1EEsM

February 2022

(7) Popular Science talk at the virtual Science outreach camp "Science Movement" for high school students of Odisha at Cohen International School, Bhubaneswar

A popular science talk on “Origin of the Universe” was given by Prof. A.M. Srivastava on 14th Feb. 2022 at the virtual Science outreach camp "Science Movement" for high school students of Odisha at Cohen International School, Bhubaneswar. The talk and interaction session was held for 2 hours.

 VIRTUAL SCIENCE CAMP-2022 13 th Feb., 2022 to 14 th Feb., 2022 AGENDA	
INAUGURATION Date: 13th Feb., 2022 Time: 9:00AM-9:15 AM	
Topic: "Understanding DNA: 3D Folding Influences How We Read Our Genes" February 13, 2022 09:15 AM to 11:15 AM	 SPEAKER Prof. Subhojit Sen University of Mumbai (UM), DAE Centre for Excellence in Basic Sciences, Mumbai
Topic: "Peering into the nano-nano world" February 13, 2022 11:15 AM to 01:15 PM	 SPEAKER Prof. Gagan Bihari Mohanty Department of High Energy Physics, Tata Institute of Fundamental Research, Mumbai
Topic: "Origin of Mass" (TBC) February 13, 2022 02:30 PM to 04:30 PM	 SPEAKER Prof. Bedangadas Mohanty School of Physical Sciences, National Institute of Science Education and Research, BBSR
Topic: "Chemistry in the Welfare of Human Society and the Challenges in Future" February 13, 2022 04:30 PM to 06:30 PM	 SPEAKER Prof. Chandu Shekhar Purohit School of Chemical Sciences, National Institute of Science Education and Research, BBSR
Topic: "Origin of the Universe" February 14, 2022 09:00 AM to 11:00 AM	 SPEAKER Prof. Ajit Mohan Srivastava Institute of Physics, Bhubaneswar, Odisha
Topic: "S....." February 14, 2022 11:00 AM to 01:00 PM	 SPEAKER Prof. Deepak Modi Scientist, Molecular and Cellular Biology Laboratory, National Institute for Research in Reproductive and Child Health, Mumbai

(Details of program of the event "Science Movement")

(8) Scientists-School Students online interaction program:

Sixth Session of Physics Open Discussion (POD) at IOP Bhubaneswar

The Sixth Session of the Monthly Physics Open Discussion (POD) online program at IOP Bhubaneswar will be held on 19th Feb. 2022 during 5:30 pm – 6:30 pm. The program was attended by about 20 school students from all over Odisha from class VI to class XII on Zoom online platform. Questions ranging from basic physics concepts (electrical circuits, high voltage current lines, light scattering by gases, polarization of waves,...), to frontier areas of physics (black holes, elementary particles etc. from internet exposure of students) were discussed. Students asked questions in English, Hindi, and Odiya.