

## A Report on “World Environment Day - 2K21”

On the occasion of World Environment Day 2K21, Environmental science Forum in association with IQAC and Department of S&H has conducted the A Guest lecture on 5<sup>th</sup> June, 2K21 through digital mode at VFSTR. We invited a resource person Dr. AvishaChowdury, Research Scientist, National University of Singapore, Singapore. For this event 510 people registered and 250 Participants joined. The introduction remarks given by Dr. Ch. Anusha, Assistant Professor, Department of Chemical Engineering about the event.

Chemistry Division head, Dr. K. Prabhakara Rao pointed out the importance of green energies like Hydrogen energy, solar energy and are the alternative fuels to this emerging world. Also, people need to restore the natural resources. HoD S&H was stated that control the pollution is need of the hour to save the nature. Dr. Srinivasadesikan V, Associate Dean IQAC specifically mentioned that the first world environment day held in 1974, it has been a platform for raising awareness on environmental issues such as marine pollution, human overpopulation, global warming, sustainable consumption and wildlife crime. Each year, the program has provided a theme, and this year theme is “Ecosystem Restoration”. Immediate actions to be taken to conserve nature for the health of our planet and to generate a positive impact on it and to heal the world to make it a better place for you and for me and the entire human race. In this regard, this webinar is an eye opener for the human kind.

Then, Dr. AnandarupGoswami, Associate Professor, S&H, introduced the speaker Avisha Chowdhury to the forum. After the introduction, Dr. Chowdhury shared her views on “Mosquito-borne Arboviral Infections”. She emphasized on her current research area on Mosquito-borne Arboviral Infections in National University of Singapore, Singapore. She started to explain that the Mosquitoes are deadliest animal. She stressed on the fact that though we are going through the COVID-19 pandemic these mosquito-borne diseases are also present which are not reported properly owing to this covid situation. Due to Mosquitoes infection, 700 million people are infected per year and 1 Million death per year is happening. In this world, more than 3500 Mosquitoes species are available and responsible for malaria, Dengue, chikungunya etc., Due to Dengue/Zika - Flavivirus - More than 400 million people were got affected in the pastn Singapore, year of 2020, the Dengue cases were reported multiple number compared with previous year due to the un-cleaned stagnant water. Vector management program used worldwide to control the Mosquitoes. Especially, in disease transmission cycle - Female mosquito bite the human to take the blood for their production; She also called CRISPR tool to study the genome sequence and identified that a few genes are commonly responsible for dengue, chikungunya, ZIKV etc., These genomic studies proved a way for analyzing these type of disease epidemiology.

The quiz competition was conducted for the students by Dr. SubhalakshmiSengupta, Scientist, S&H deptt. and team on the occasion of World Environment Day. Among the 172 student participants of VFSTR who registered, 142 participated in the 30 min long online quiz. The result was announced by Dr. Ravikumar K. Asst. Prof. S&H, Deptt. Finally, Dr. Avisha Choudhury addressed the question and answer raised by the participants. The vote of thanks delivered by Dr. Devaraju S. Assoc. Prof. S&H, Deptt.

**Resource Person: Dr. Avisha Choudhury**  
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