

DAYALBAGH EDUCATIONAL INSTITUTE (DEEMED TO BE UNIVERSITY)

DISTINGUISHED SPEAKER LECTURE



DR. MANU PRAKASH Associate Professor, Department of Bioengineering Senior Fellow, Woods Institute for the Environment Stanford University, USA. FRUGAL INNOVATION: DEMOCRATIZING CURIOSITY-DRIVEN SCIENCE 6:30 AM IST, TUESDAY, 09 FEBRUARY 2021.

About the Speaker

Dr. Manu Prakash is a recipient of the MIT Ideas Sustainability Prize, the prestigious MacArthur Fellowship (commonly referred to as the genius grant), Rotary International Humanitarian Award for Contributions in Science, Technology and Robotics and the Microbiology Society Unilever Colworth Prize among several other awards and honors. Dr. Prakash is dedicated towards inventing, building and scaling-up frugal science tools to democratize access to science such as Foldscope, diagnostics of deadly diseases like malaria and convening global citizen science communities to tackle planetary scale environmental challenges such as mosquito or plankton surveillance by citizen sailors mapping the ocean in the age of Anthropocene. He has has also made notable contributions in response to the COVID-19 diagnostic challenges. In consideration of DEI's extensive outreach programs and an indomitable will to reach out to the last, the least, the lowest and the lost, he has been a zealous collaborator and often interacts and inspires students at Rajaborari (M.P.) and other rural and tribal centers of DEI. For more, visit https://profiles.stanford.edu/manu-prakash

About the Lecture

about cost as an Thinking engineering constraint brings new life to old ideas of physics, making the difference between an idea influencing a hundred people or a billion! With our planet literally teeming with problems, it's time to take cost constraints into serious consideration. The Prakash Lab designs solutions for extremely resource constrained settings, especially in the field of global health, ranging from field diagnostics to hand on science education. Some projects include Foldscope (low-cost microscope), Oscan (scanning oral cavity for cancer), Punchcard microfluidics (chemistry kit). VectorChip and Abuzz (detecting and identifying mosquito species), Paperfuge (lowcost centrifuge), MalariaScope (diagnostics), PlanktonScope (capturing the ocean's diversity) and a recent rapid and accurate lowcost saliva test for COVID-19.

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