

Institute Lecture

MAKING THINGS, DOING SCIENCE

Mr. Arvind Gupta

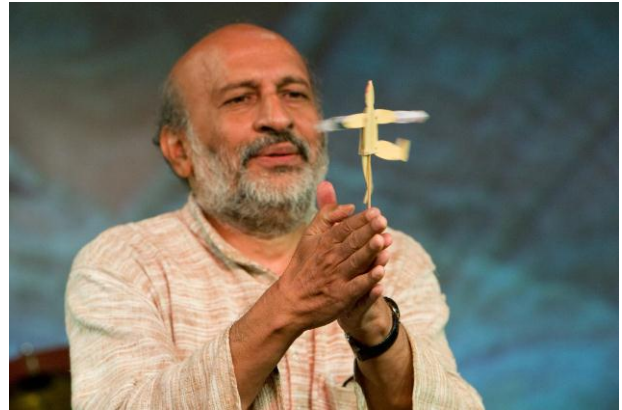
arvindguptatoys.com

27th August 2018, Time: 6:15 PM, Venue: LH-17

Abstract

Before children can understand a thing, they need experience: seeing, touching, hearing, tasting, smelling, choosing, arranging, putting things together, taking things apart. Children need to experiment with real things available in their milieu. In India most science is learnt by rote – by mugging up definitions and formulae and spitting them out in the exams. Very few children dirty their hands on making simple models. The Government of India launched the Make in India campaign two years back. They soon realized that the slogan will become a reality only when children start learning science in schools through actual experiments and projects. Now the

Government of India is opening hundreds of Atal Tinkering Labs in schools.



Many science models can be made from throwaway stuff to make science fun for children. They include simple pumps, electric motors and generators. Children love toys which spin, fly, move and make sound. These toys are made with simple materials often with discarded stuff – old plastic bottles, tetrapacks, newspapers, straws, old pens etc. This lecture-demonstration will show the possibilities of using simple things to make science fun, so that the poorest children in the world can use them.

Arvind Gupta Wiki

https://en.wikipedia.org/wiki/Arvind_Gupta

Arvind Gupta TED Talk

http://www.ted.com/talks/arvind_gupta_turning_trash_into_toys_for_learning?language=en

About the speaker

Mr. Arvind Gupta did a B. Tech from IIT, Kanpur (1975). He left a corporate job to pursue his passion - making science fun for children. He has written 30 books on science activities, translated 400 books into Hindi and presented 125 films on science activities on Doordarshan.

He worked at the Children's Science Center at IUCAA, Pune for 11 years. The Centre produced 8600 short (2-minute) videos on simple experiments and science toys in 20 different languages. The videos have been viewed by over 70-million children worldwide. Every day over 12,000 books are downloaded from his popular website <http://arvindguptatoys.com> He has received many honors including the Distinguished Alumnus Award of IIT Kanpur and the Padma Shri.

Tea at 6.00 PM

All interested are welcome.

S. Ganesh

Dean of Research and Development, IIT Kanpur