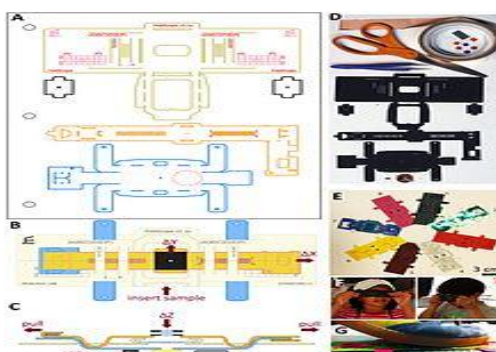


DBT FOLDSCOPE WORKSHOP & AWARD CEREMONY

FOR SCHOOL STUDENTS & TEACHERS OF KANYAKUMARI DISTRICT

“INNOVATION OF YOUNG MINDS IN CONSERVATION OF NATURE”



DECEMBER 14, 2018

Venue: TRI SEA Hotel, Kanyakumari



**Organized By
WILLIAM RESEARCH CENTRE
NAGERCOIL - 1**

ABOUT WRC

The research centre was established in 2002 with the unique realization to promote the advancement, transfer and sharing of scientific knowledge, science education, raise public awareness of sustainable development issues by launching co-operative activities. Our vision and mission is to conserve our nature and to disseminate the scientific techniques for prosperity among the rural, tribal and scientific community.

For More Information: www.wrcind.org

THE EVENT

A **Foldscope** is an optical microscope that can be assembled from simple components, including a sheet of paper and a lens. It was developed by Manu Prakash and designed to cost less than US\$1 to build. It is part of the "frugal science" movement which aims to make cheap and easy tools available for scientific use in the developing world. The basic principle of using a small spherical lens held close to the eye dates back to [Antonie van Leeuwenhoek](#) (1632-1723), who was the first to see single-celled [organisms](#) using such a lens held in a device of his own design. The Foldscope was developed by a team led by Manu Prakash, an assistant professor of [bioengineering](#) at the [Stanford School of Medicine](#).

The idea for creating a low-cost microscope came to Prakash in 2011 while he was at a field station in [Thailand](#). He remarked that the station had a very expensive microscope but that everyone was afraid to use it because it was fragile and worth more than most people's salaries. He wanted to create an affordable microscope that would be versatile and sturdy enough to work in field conditions. He also wanted to create a device that people felt they had ownership of, which is part of the reason the Foldscope comes in a kit to be assembled.

A Foldscope is an optical microscope that can be assembled from a punched sheet of cardstock, a spherical glass lens, a light emitting diode and a diffuser panel, along with a watch battery that powers the LED. Once assembled, the Foldscope is about the size of a bookmark. A plant pathologist in Rwanda who used it to examine fungi on banana crops and Maasai children in Tanzania who used it to check cow feces for parasites. In October 2015, India's Department of Biotechnology announced a program to make Foldscopes available across India at 80 approved colleges and programs. It will be used as a teaching tool for students in biology, chemistry and physics. After the pilot program, the Department hopes to work with Prakash to develop more low-cost science tools.



WORKSHOP DETAILS

1. Lecture regarding Foldscope and its benefits to School Students
2. Assemblage of Foldscope Instrument
3. Practical to prepare stained mount of onion peel to observe the cells using Foldscope
4. Practical to prepare Pollen Slides to observe the nature of pollen using Foldscope

AWARDS

- ❖ Best Student Award
- ❖ Young Scientist from Schools
- ❖ Best Teacher, Best School and Best Principal Award

Note: Kindly send the filled application form with the registration fee details to wilrescen@yahoo.co.in (or) rmsuja.83@gmail.com

GENERAL INSTRUCTIONS

1. Participants must report the workshop venue between 8.00am and 9.00am.
2. All participants must wear the School Uniform and ID.

REGISTRATION DETAILS

1. Schools willing to participate may register by sending the duly filled registration form with the registration fee.
2. Registration for participation is mandatory
3. The last date for registration for participation in the event is December 05th 2018.

IMPORTANT DATES - WORKSHOP

Registration Opens on: **November 15, 2018**

Registration Closes on: **December 05, 2018**

REGISTRATION FEES: Rs. 500/- (Five hundred only)

NO OF PARTICIPANTS: School Grade wise (Only 2 Participants are permitted in each grade) (Grade III to Grade XII) 10x2 = 20 Participants per School

MODE OF PAYMENT

Registration charges are to be paid in cash of any Nationalized Bank drawn in favour of **“Secretary, William Research Centre Nagercoil. Cheques and Credit cards are not accepted.** Online transactions can be made in the
Account Holder: William Research Centre
Account Number: 176101000014302
IFSC Code: IOBA0001761
Bank: Indian Overseas Bank
Branch: Scott Christian College (Autonomous), Nagercoil.

Scanned copy of online transaction must be submitted for verification to avoid further inconvenience.

For Further Clarifications and Queries about the Events send mail to:

wilrescen@yahoo.co.in/

rmsuja.83@gmail.com

Organizing Secretary
Dr. R. Mary Suja
Director,
William Research Centre
Nagercoil -1
Mobile: 8760509942 /9488677936

BIODATA

1. Name of the Applicant:
2. Name of the School:
3. School Address:
4. Grade:
5. Residential Address:
6. Parent's Contact Number:
7. Parent's Occupation:
8. Grade:
9. Ambition:
10. Role Model:
11. Field of Interest:
12. Briefly mention your role in conservation of nature (1000 Words)

1. LIST OF PARTICIPATION CERTIFICATES IN COMPETITIONS

S.No	Year/Month	School level	District Level	State Level	National Level	International Level

2. LIST OF AWARDS/MOMENTUM/PRIZES

S.No	Year/Month	School level	District Level	State Level	National Level	International Level

Place:

Signature

Date:

Head of the Institute with Seal