

National Workshop on Foldscope

(Under the DBT Foldscope initiative)

31st August – 01st September, 2018



Organised by:

Dr. Vishnu Agarwal
Principal Investigator

Department of Biotechnology
Motilal Nehru National Institute of Technology
Allahabad
ALLAHABAD, 211004, India



About the Institute

Motilal Nehru National Institute of Technology Allahabad, is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology fully funded by Ministry of Human Resource Development, Gov. of India. The institute offers B.Tech, M.Tech, Ph.D., M.C.A, M.B.A. degrees in various disciplines of sciences, engineering, technology and humanities.

About foldscope



Foldscoopes are origami microscopes that have the potential to change the way we view life and microorganisms around us. Invented a few years ago by Manu Prakash and Jim Cybulski

from Stanford University, these pocket-sized tools are now making their way to biodiverse, yet remote parts of the world. A Foldscope 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. The Foldscope weighs 8 grams and comes in a kit with multiple lenses that provide magnification from 140X to 2,000X. The kit also includes magnets that can be stuck onto the Foldscope to attach it to a smartphone, allowing the user to take pictures of the magnification. A Foldscope can be assembled in seven minutes.

The magnification power is enough to enable the spotting of organisms such as *Leishmania*, *Escherichia coli* and malarial parasites.

About DBT Initiatives on foldscope

The Department of Biotechnology (DBT), Government of India and Prakash Lab at Stanford University, USA signed an agreement a few months ago to bring the Foldscope to India to encourage curiosity in science. Following an understanding between DBT and Prakash Lab, foldscoopes have been distributed to several college students and series of workshops held across India to popularize the origami paper microscope



sample by eye and now camera, then are images and videos of your samples

About the Department

The Department gained shape as an independent administrative 'Department of Biotechnology' on April, 2012. The department comprises of eleven expert faculty members from diverse areas. The faculties have also been able to generate the external funding from various government agencies viz. DST, DBT, UGC, MNRE, ICMR etc. and published papers in National/International journals of repute. In addition, several training programs, national, and international conferences has been organized successfully. The department has independent state-of-art modular laboratories to perform experiments in microbiology, immunology, biochemistry, molecular biology, cell culture and bioprocess technology.

The city of Allahabad

Allahabad is the sacred city of india where three *holy rivers namely Ganga, Yamuna and invisible mythological Saraswati meet*. The famous *Kumbh* is organised here after every twelve years where hundreds of million people gather for holy bath. The Allahabad has been famous place of learning since long due to its world famous academic institutions.

About the course:

Objective: The course is to provide up-gradation of knowledge and skills for Faculty/scientist/Principal Investigators of foldscope project/ Research Students/Ph.D. students who are interested for foldscope related research, field studies, its foldings and functioning. It shall also provide a platform for collaboration, twinning, and idea exchange among different scientists working in the similar or different area.

Workshop Highlights:

- Spreading knowledge and awareness of foldscope
- Site visit for on field microscopy through foldscope.
- Attending and participating in awareness and spreading workshop.
- Special session on collaboration and twinning, you may find your partner for collaboration and twinning.
- Exchange of idea and research outreach.

Number of seats: Limited to 60

Accommodation: The participants may be provided accommodation in the institute guest house and/or hostel depending on the availability, on payment basis. Accommodation can also be booked in nearby hotels directly or through organizers on payment basis.

For further enquiries contact: vishnua@mnnit.ac.in, Mob: 9235682651; 6392651837 (whatsapp)

Food: A registration kit, Lunch, Dinner and High Tea/Tea shall be provided to the participants during the course of workshop (charges are included in the registration fee).

Eligibility: Faculty/scientist/Principal Investigators of foldscope project/ Research Students/Ph.D. students who want to come across with foldscope. Limited numbers of seats with discounted registration may also be provided to PG/UG students.

Mode of payment: Shall be informed after participation confirmation.

Organized By: Dr. Vishnu Agarwal (Convener and Coordinator), Associate Professor, Department of Biotechnology, MNNIT Allahabad.

REGISTRATION FORM

Personal Details:

Title(Mr./Ms./Mrs./Dr.):.....Gender(Male/Female):
Name:Date of Birth:Age:
Designation:Qualification:College/Institute/University:
Department:City:.....State:

Contact Details:

Address:Pin:Ph./Mob.:Email:

Payment details:

Demand Draft No: Dated:
Drawn on.....
Total Amount in INR.....

OR

Online registration fee details.....
(Attach the DD or online payment receipt with form)

Declaration:

I am interested in attending this training course. All the information provided are correct.

Signature of Applicant

Note:

Incomplete or registration form without demand draft/fee shall be rejected.

A separate registration form should be used for every delegate
Registration fee is non-refundable

Registration Fee (Foldscope Grant Holders)

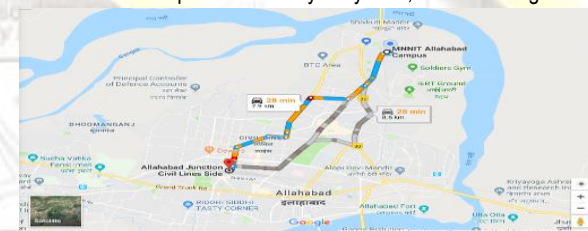
- Faculty/scientist/Principal Investigators of foldscope project= Rs.4000/-
- Ph.D./Research Students: Rs. 3000/-
- PG/UG = Rs. 800/-*

(* Discounted fees; Without twinning and collaboration session)

Registration fees includes

A registration kit, Lunch, Dinner and Tea, Workshop session
Discussion and Collaboration/ Twining session

How to reach MNNIT Allahabad: The city of Allahabad is well connected with all parts of India by daily train, buses and flights.



Contact:

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