

Foldscope Workshop for Elementary, Middle and High School Teachers

Saturday, January 14, 2017

10:00 AM – 3:30 PM

ASSET is offering a 5-hour workshop at Cornell University featuring the educational use of Foldscopes.

Maxwell Coyle, a member of the Stanford University Foldscope team who has presented Foldscope seminars around the world, will join us to provide hands-on instruction and a unique perspective on Foldscope technology



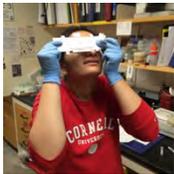
What are Foldscopes?



Foldscope is a low-cost paper microscopy platform for education purposes that has been distributed to more than 50,000 people in 135 countries who use the tool for research and education. Dr. Manu Prakash, an assistant professor of bioengineering at Stanford University, has been awarded a “genius grant” from the John D. and Catherine T. MacArthur Foundation for his pioneering work developing the Foldscope paper microscope.

How is ASSET using Foldscopes?

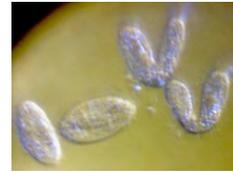
ASSET is developing classroom and take-home activities incorporating Foldscopes.



Cornell student testing Foldscope



Elementary students using Foldscope in class



Images of Tetrahymena taken with Foldscope

Workshop details

This workshop will engage teachers in the use of Foldscopes and demonstrate potential uses both in class and as part of a take home project designed to encourage students explore the natural world around them.

Activities will include –

- An introduction to Foldscopes, Foldscope construction, practice using prepared slides, making your own slides, capturing images using cell phones, making videos, and projection.
- Demonstration of advanced options for Foldscope use (Dark field, PVC ditchmaker slide, fluorescence)
- Exploration of avenues for incorporation of Foldscopes into classroom activities at various grade levels, using ASSET modules as a prototype
- Discussion of integration of Foldscopes into existing curricula at various grade levels relative NYS science standards
- Question and answer period with Max Coyle

Teachers are encouraged to bring samples to look at (aquaria water, hair, moss, lichens, dead leaves, use your imagination) and a smart phone with a camera.

Teachers will receive a certificate for 5 hours of professional development for attending the workshop.

Workshop schedule

When: Saturday 1/14/2017 10:00 AM – 3:30 PM (light lunch provided)

Where: Cornell University College of Veterinary Medicine

Registration: email us at sepa_asset_program@cornell.edu by 1/6/2017. Attendance is limited so please respond early.