



Research Triangle Nanotechnology Network

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Hello Science Educators!

Would you like for your students to be able to image something at the nanoscale? The Research Triangle Nanotechnology Network (RTNN) is here to help!

The RTNN is an NSF-funded collaboration between NCSU, Duke, and UNC. A major focus of the RTNN is to bring nanotechnology awareness and experiences into middle schools and high schools. Through the RTNN, we will be able to offer you FREE access to equipment such as scanning electron microscopes (SEMs) that can image objects at the nanoscale.

There are numerous ways to interact with us for FREE:

Monster Under the Bed: Send a sample to us (e.g. dust from under your bed – there will be mite monsters), and we will image the sample in the SEM in a real time Skype link with your class.

Seat Belts Everyone! Field Trip: Visit our RTNN labs and observe our equipment in action. Maybe your class collects a few bugs, rocks, or plants they are interested in looking at.

School Days: Use scotch tape to collect samples from around your school by sticking it to surfaces and seeing what it collects.

Send your samples to us in advance. On the day of your virtual skype or in-person visit, a student Staff member at one of our universities will connect with your class via Skype or in person. They will talk with your class about the equipment being used, what it's typically used for, and then will image the sample(s) that your class sent to us. Your students will see the equipment, how the imaging SEM system works, get to see their samples up close, and start making discoveries of their own.

If you're interested in bringing this technology into your classroom, contact us at rtnanonetwork@ncsu.edu.

Sincerely,

Carrie Donley (UNC)

Jacob Jones (NCSU)

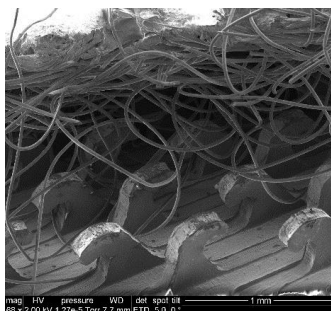
Nan Jokerst (Duke)

Jim Cahoon (UNC)

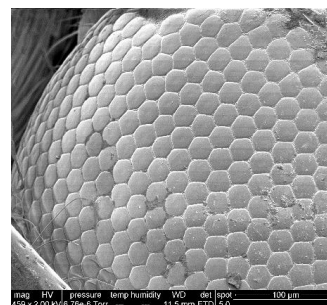
David Berube (NCSU)

Mark Walters (Duke)

Mehmet Ozturk (NCSU)



Velcro



Bug Eye

The RTNN is a partnership between NC State University, Duke University, and the University of North Carolina – Chapel Hill