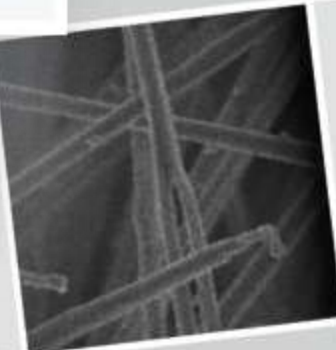
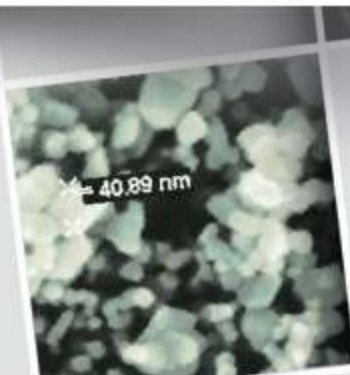


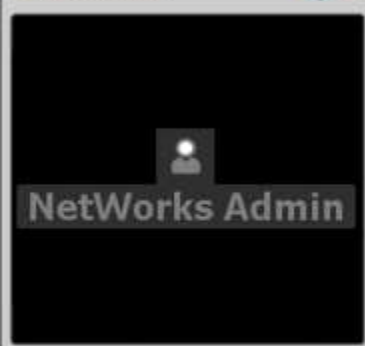
# RET Experience: Activities for the High School Classroom

March 28, 2014

**The webinar will begin at 1pm Eastern Time**



**Perform an audio check by going to Tools > Audio > Audio Setup Wizard**



Talk Video


NetWorks A... Moderator

- NetWorks Admin Moderator (You)
- mike mac
- mike pc #2

- You joined the Main Room. ( 12:33 PM ) -  
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 Building College-University Partnerships for Nanotechnology Workforce Development

# RET Experience: Activities for the High School Classroom

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# Whiteboard

AUDIO & VIDEO



NetWorks Admin

Talk Video

PARTICIPANTS

NetWorks A... Moderator

MAIN ROOM (3)

NetWorks Admin Moderator (You)

mike mac

mike pc #2

**Participant Box**

CHAT

- You joined the Main Room. ( 12:33 PM ) -


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**Chat Box**

Room Moderators

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# RET Experience: Activities for the High School Classroom

March 28, 2014

NetWorks Admin

Talk Video

NetWorks A... Moderator

MAIN ROOM (3)

NetWorks Admin Moderator (You)

mike mac

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Chat Box

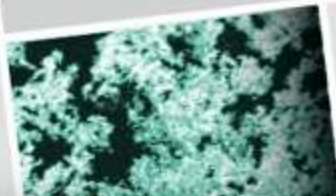
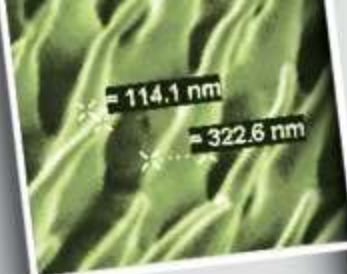
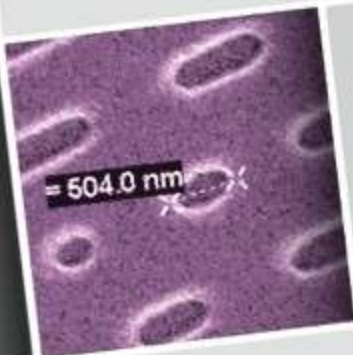
Room Moderators



# RET Experience: Activities for the High School Classroom

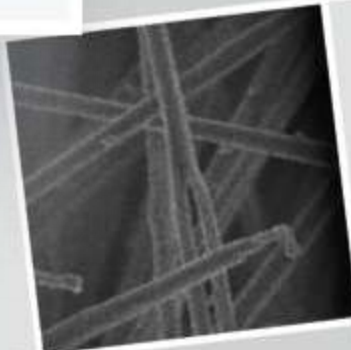
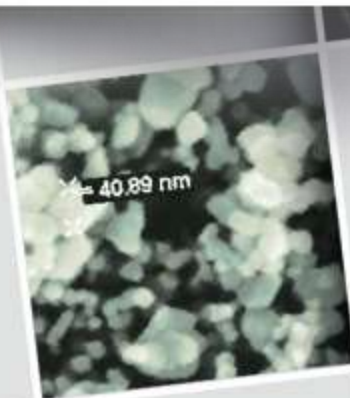
March 28, 2014





# RET Experience: Activities for the High School Classroom

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The NACK Network, established at the Pennsylvania State College of Engineering, and funded in part by a grant from the National Science Foundation (DUE 1205105).



Hosted by MATEC NetWorks [www.matecnetworks.org](http://www.matecnetworks.org)

# Welcome to NACK's Webinar

## Today's presenter:

Theresa Burch  
Physics and Integrated Science  
Teacher  
Ironwood High School  
Glendale, AZ



## Also joining us today:

Trevor Thornton, PhD  
Director – Center for Solid State Electronics  
Arizona State University  
Tempe, AZ



Mike Davis,  
Administrator

Moderator: Mike Lesiecki



# RET Program

## Research Experience for Teachers

### Summer 2013



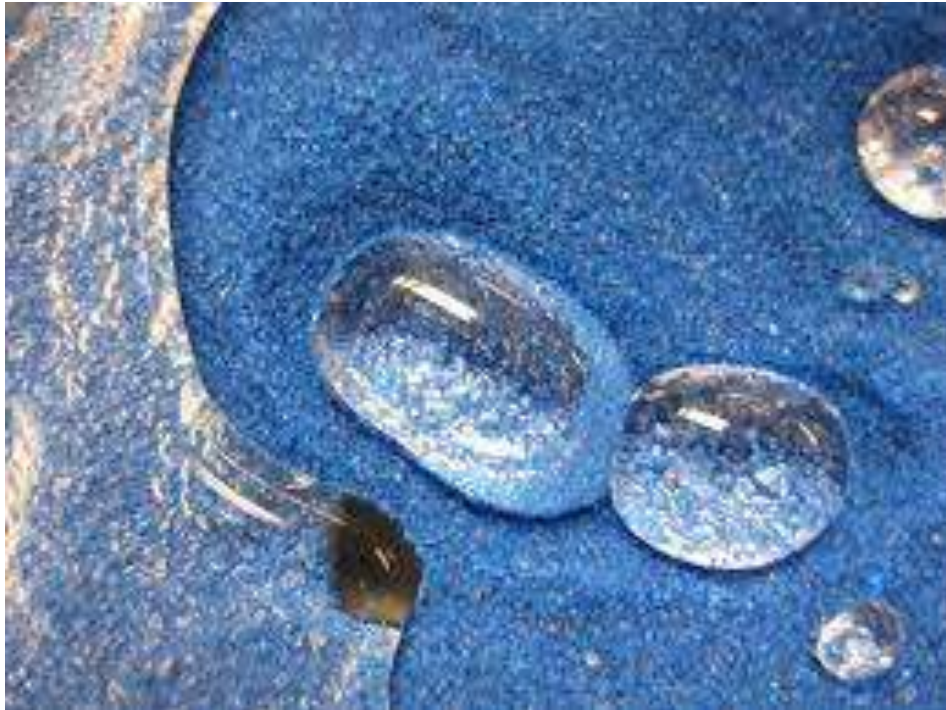
<https://www.youtube.com/watch?v=OXichTTZ1oM>



# How I am connected...

- Teach Freshman Science and Dual Enrollment Physics through GCC at Ironwood High School
- Teach Adjunct sections at Glendale Community College
- Outreach to feeder Heritage Elementary School to recruit for Engineering Academy
- Engineering Academy offers dual enrollment community college and university credit

As a teacher you want to make your classes more fun and engaging but it can't be just fun and games. There has to be learning aligned to standards and objectives. Nano technology is not in our standards, but 21<sup>st</sup> Century skills are!



# Eva Pettinato

I followed a graduate student through her program and chronicled her experience in video. I showed the videos to my high school students and guided them through the main points of 21<sup>st</sup> Century Skills as they reacted to her.

This is not Eva Pettinato >>>>



# Standards for the 21st Century Learner

## Standard 1:

**Inquire, think critically, and gain knowledge**

[https://www.youtube.com/watch?v=iQSUgAP\\_TVI](https://www.youtube.com/watch?v=iQSUgAP_TVI)

# Questions?

# Standards for the 21st Century Learner

## Standard 2

**Draw conclusions, make informed decisions, apply knowledge to new situations, and create new knowledge.**

<https://www.youtube.com/watch?v=lajQuqlgNOo>



# Standards for the 21st Century Learner

## Standard 3:

**Share knowledge and participate ethically and productively as members of our democratic society.**

<https://www.youtube.com/watch?v=3r8P2Hu-tVw>

# Standards for the 21st Century Learner

## Standard 4:

**Pursue personal and aesthetic growth.**

<https://www.youtube.com/watch?v=oxQiA9RzNCI>

# Success!



# Final Questions



Questions?

Please type all questions into the Chat Box

# How Can We Better Serve You?



Whether you are joining us live or watching the recorded version of this webinar, please take 1 minute to provide your feedback and suggestions.

<http://questionpro.com/t/ABkVkZQFNj>



# Webinar Recordings

The header features a collage of scientific images. On the left, there's a purple-tinted image of a cell or microorganism. In the center, a green-tinted image shows a dense cluster of small, rounded structures. On the right, a grayscale image displays a complex, branching, and textured structure, possibly a biological or chemical specimen.

To access this recording, slides, and handout visit  
[nano4me.org/webinars.php](http://nano4me.org/webinars.php)

# Certificate of Participation



If you attended the live version of this  
1.5 hour webinar and would like a  
certificate of participation, please email:

[sbarger@enr.psu.edu](mailto:sbarger@enr.psu.edu)



# 2014 Events Calendar

- April 7-10:** Nanotechnology Course Resources  
*Workshop* Workshop 1: Safety, Processing, & Materials
- April 25:** Industry Partners for Your Nano Program  
*Webinar*
- May 13 – 15:** Hands-On Introduction to Nanotechnology for  
*Workshop* Educators
- May 15:** Electrospinning  
*Webinar*

Want more events? Visit [www.nano4me.org/webinars](http://www.nano4me.org/webinars) for more details about these and other upcoming workshops and webinars in 2014.



Thank You!

Thank you for attending the  
NACK Network webinar

**RET Experience: Activities for the  
High School Classroom**