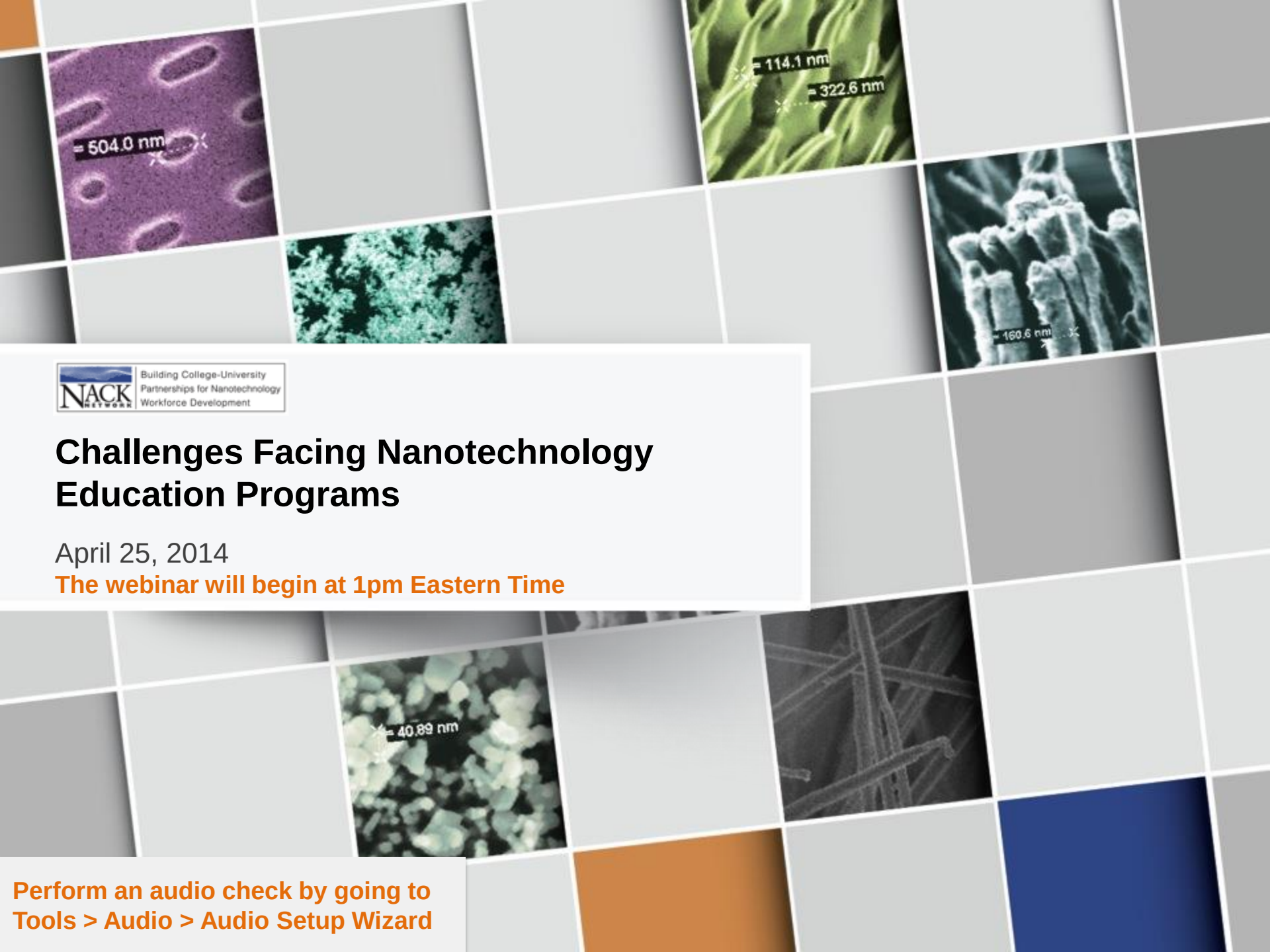

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Building College-University Partnerships for Nanotechnology Workforce Development

Challenges Facing Nanotechnology Education Programs

April 25, 2014

The webinar will begin at 1pm Eastern Time

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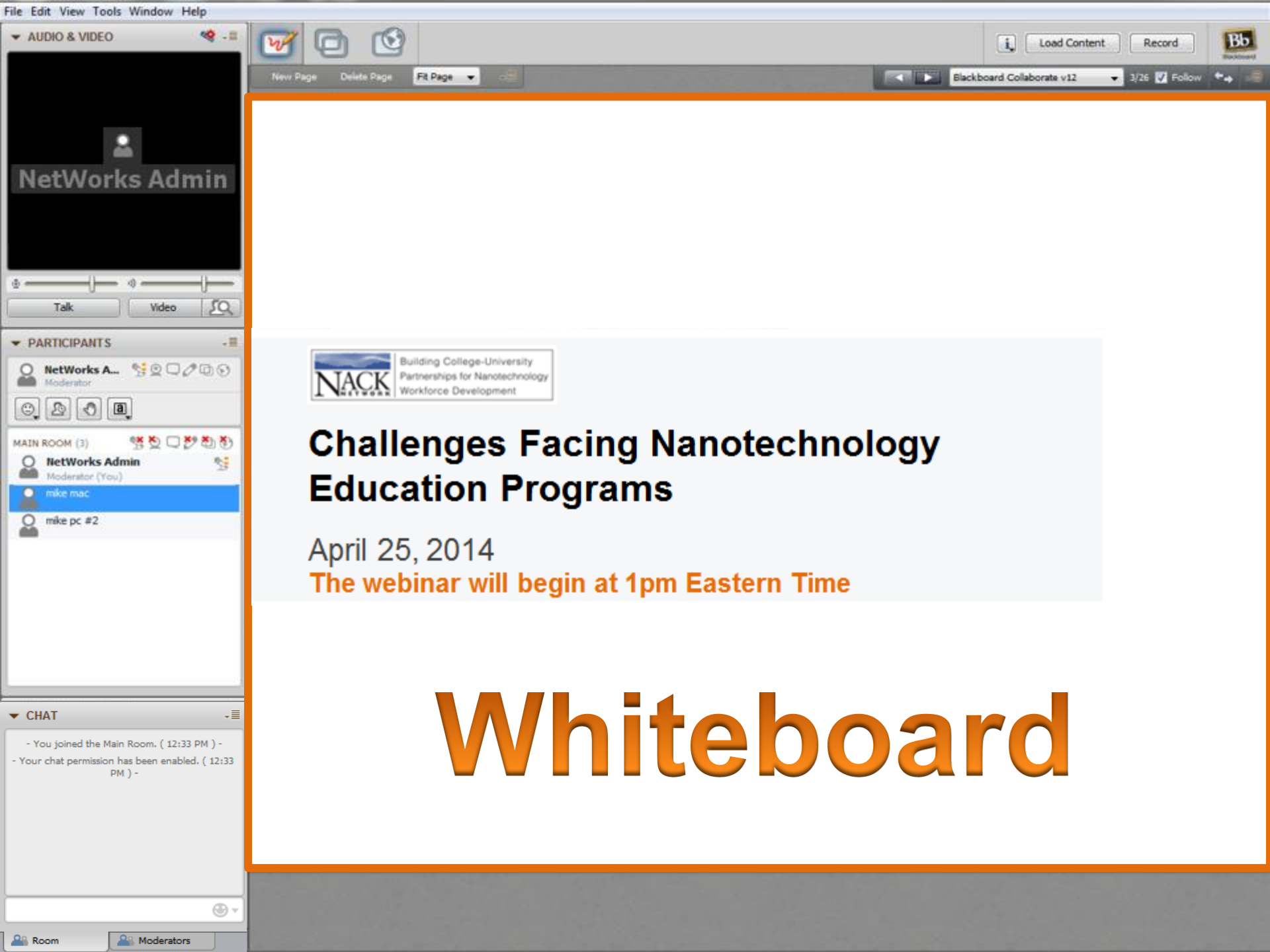
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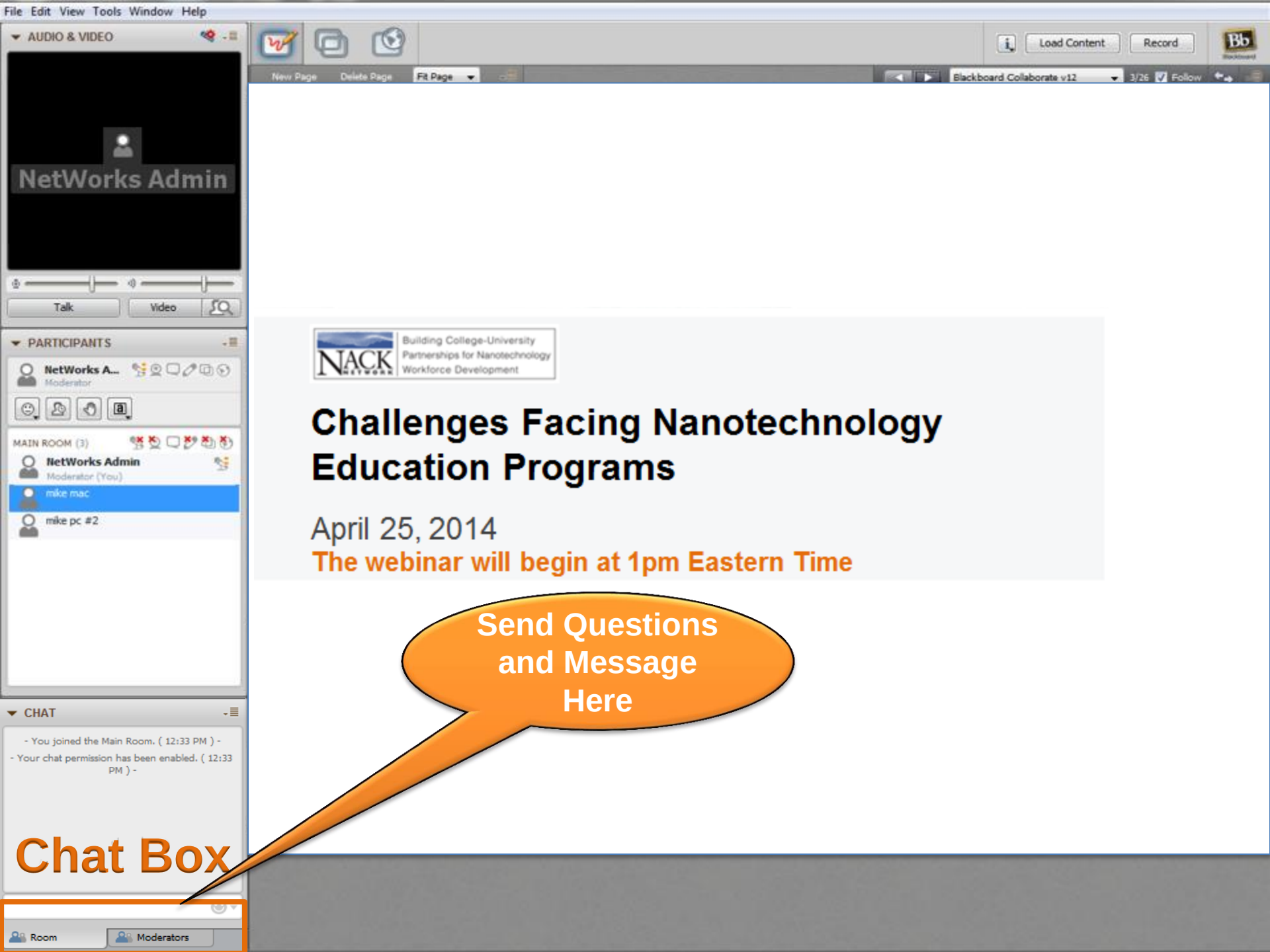
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The NACK Network, established at the Pennsylvania State College of Engineering, and funded in part by a grant from the National Science Foundation (DUE 1205105).

Hosted by MATEC NetWorks ***www.matecnetworks.org***

Today's Presenters

Moderator: Sam Agdasi
Assistant Professor and Chair, Nanotechnology
Ivy Tech Community College
aaghdasi@ivytech.edu

Peter Kazarinoff
Managing Director, SHINE
North Seattle College
Peter.Kazarinoff@seattlecolleges.edu

Qiaoying Zhou
Nanotechnology Coordinator and Assistant Professor
Northwest Vista College
qzhou2@alamo.edu

Kevin Conley
Nanotechnology Education Coordinator
Forsyth Technical Community College
kconley@forsythtech.edu

Host: Mike Lesiecki
MATEC

SHINE's vision

- Expand the diversity, number and quality of trained nanotechnicians entering the workforce in WA, OR and ID
- Promote and support nanotechnician education in the region
- Connect nanotechnology stakeholders: Students, Educators and Industry in WA, OR and ID

ALAMO COLLEGES

NORTHWEST VISTA COLLEGE

Nanotechnology Program at Northwest Vista College
Current Enrollment: 54 in technical courses

- Level One Certificate
- Associate Degree (AAS)
- Advanced Technical Certificate
- 2 + 2 Bachelor Degree Program in conjunction with the University of Texas at San Antonio (UTSA)

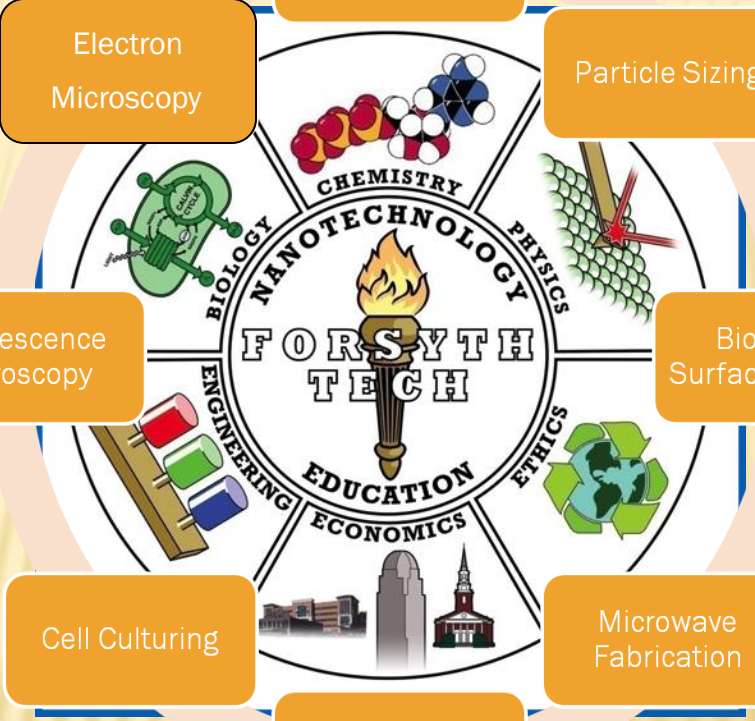
ForsythTech

More Than You Know

Infrared Spectroscopy

Electron Microscopy

Particle Sizing



Fluorescence Microscopy

Biological Surface Analysis

Cell Culturing

Microwave Fabrication

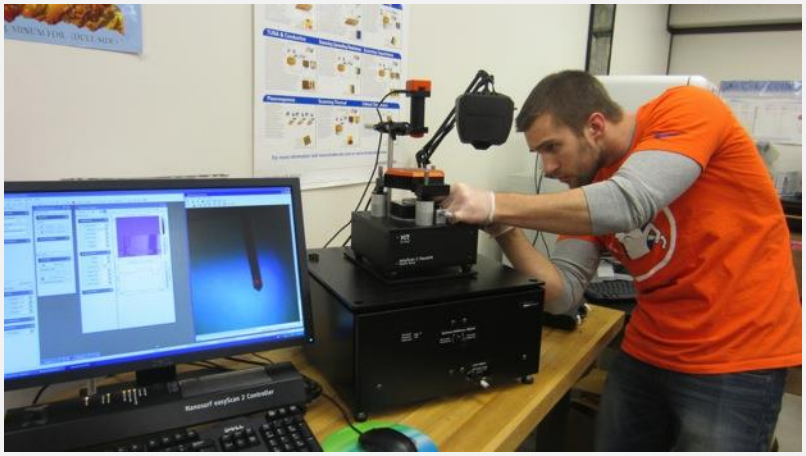
Bioprinting

Ivy Tech Community College

- The only ATMAE-Accredited Nanotechnology Program in the U.S.
- Teaches all NACK nanotechnology courses and labs
- Strong partnership with University of Notre Dame
- Collaboration with local start-up companies including F Cubed, U.S.Nano and Indiana Integrated Circuits
- Transfers to Purdue University, North Central as a 2+2 program

IVY TECH COMMUNITY COLLEGE

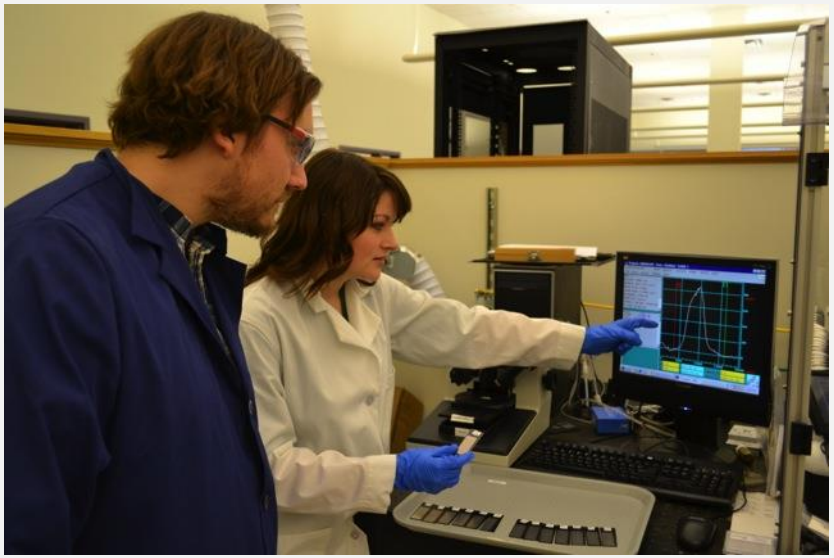
Panelist Discussion



Establishing the Need

Community Colleges are considered as an important force for economic development in a region through preparation of the workforce.

- What benefits are there for colleges to have technical programs?
- What can college administrations do to highlight / promote tech programs and get local industry and business to know and really understand the value of graduates from these programs?



Issues

- How can a college justify maintaining currency of the programs and the labs and the faculty who support them?
- What can we do to better recruit and retain academically strong modern neo-millennial students into these programs?

Technology

- What can be done to support the development of online technologies for nanotechnology education?

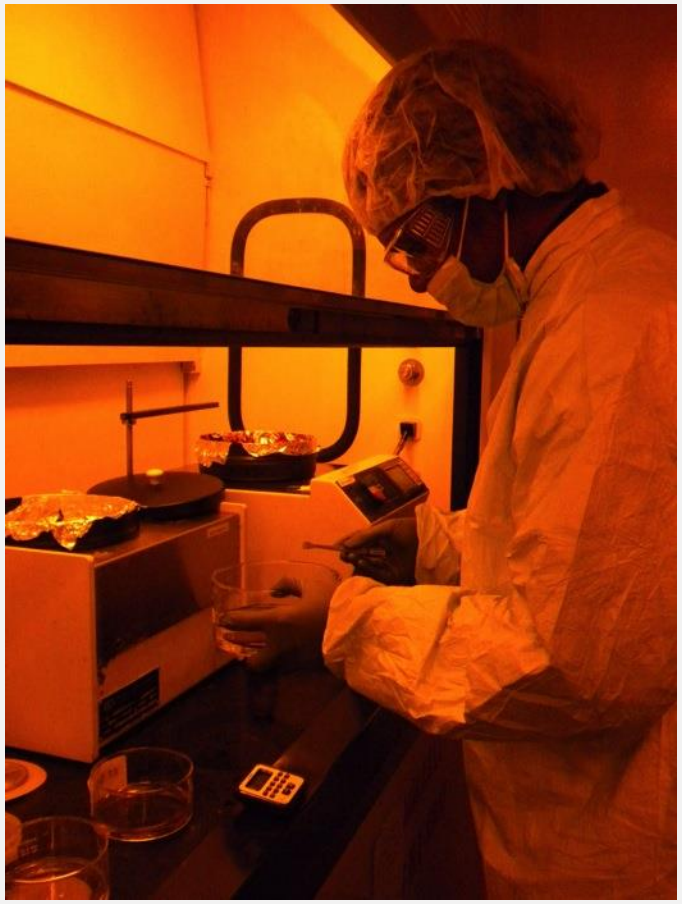
- What are the critical few issues and the few, major possible solutions and ideas?

What is your special sauce?

- What is unique about your program that makes it stand out from others?

- What do you tell people is your “special sauce”?

Summary



ALAMO COLLEGES
NORTHWEST VISTA COLLEGE

ForsythTech
More Than You Know

IVY TECH
COMMUNITY COLLEGE

SHINE

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/ABkVkZQFNn

Webinar Recordings

To access this recording, slides, and handout visit

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@engr.psu.edu

2014 Events Calendar

May 13 – 15: *Workshop*	Hands-On Introduction to Nanotechnology for Educators
May 15: *Webinar*	Electrospinning
Aug 11– 14: *Workshop*	Nanotechnology Course Resources II: Patterning, Characterization, and Applications

Want more events? Visit 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

Challenges Facing Nanotechnology Education Programs