#ATEPI Oct 26-28

ATE 2022 PRINCIPAL INVESTIGATORS' CONFERENCE

Reconnecting & Advancing the Skilled Technical Workforce

NSF

AACC AMERICAN ASSOCIATION OF COMMUNITY COLLEGES

LEAD ADVOCATE ADVANCE

Orientation to the 2022 ATE Conference

Tuesday, October 13

Webinar begins at 1:00 pm EDT

NSF

AACC AMERICAN ASSOCIATION OF COMMUNITY COLLEGES

Presenters

Ellen Hause
Associate Vice President, Academic and Student Affairs
American Association of Community Colleges

Courtney Larson
ATE Project Coordinator
American Association of Community Colleges

Rachael Bower
PI, ATE Central
University of Wisconsin-Madison, WI

#ATEPI Oct 26-28

ATE 2022 PRINCIPAL INVESTIGATORS' CONFERENCE

Reconnecting & Advancing the Skilled Technical Workforce

AMERICAN ASSOCIATION OF COMMUNITY COLLEGES
LEAD ADVOCATE ADVANCE

- ATE Conference Overview
- ATE Connects – Virtual Kick-Off
- Virtual Platform & Track
- In-Person Conference
- Q/A

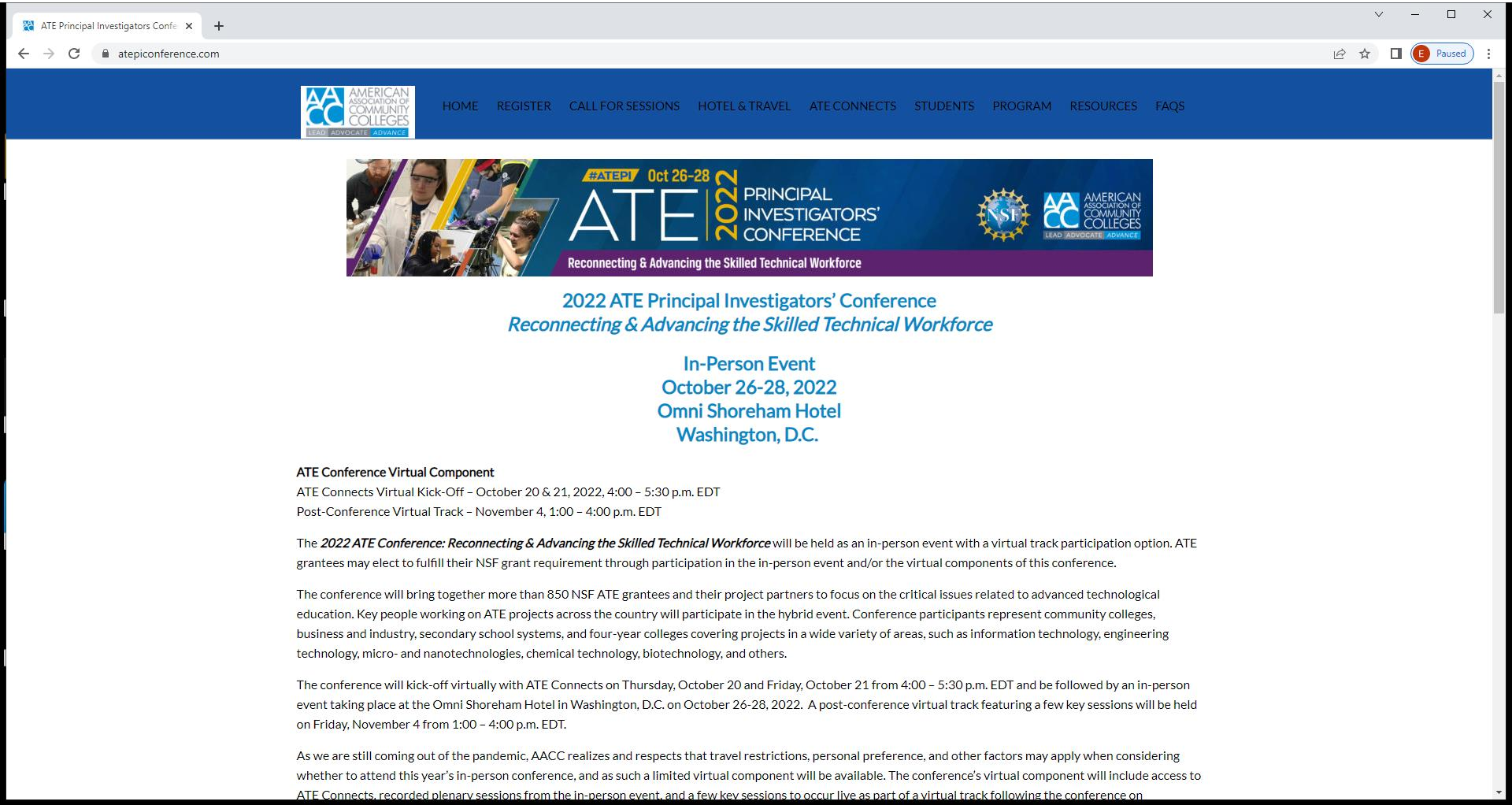
What, When, Where?

- National ATE PI Conference – NSF & AACC
- Held in October of each year – virtual in 2020 & 2021
- For 2022, in-person conference with a virtual track
  - October 20-21 Virtual ATE Connects Kick-Off
    - 4:00 – 5:30 p.m. EDT
  - October 26-28, 2022 – In-Person
    - Omni Shoreham Hotel
    - Washington, D.C.
  - November 4, 2022 – Virtual Track
    - 1:00 – 4:00 p.m. EDT

Who & Why?

- ~800 people between in-person/virtual
  - Expecting 650 attendees in person
- ATE community
- NSF/AACC
- Select guests
- National context
- Networking
- Professional Development

www.ATEPIConference.com



ATE Connects Virtual Kick-Off

- **Open Live - Welcome & Remarks from NSF**
- **Opportunity to Join live Zoom Meetings via discipline area**
- **Virtual Kick-Off - Thursday, October 20, 4:00 – 5:30 p.m. (EDT)**
  Discipline Areas Featured: Advanced Manufacturing, Agricultural and Environmental, Engineering, and Micro and Nanotechnologies
- **Virtual Kick-Off - Friday, October 21, 4:00 – 5:30 (EDT)**
  Discipline Areas Featured: Biological and Chemical, General Advanced Technological Education, Information and Security, Targeted Research
- Materials on platform on-demand for 6 months following the event.

ATE Connects Virtual Kick-Off

October 20 – 4:00 – 5:30 p.m. EDT

4:00 p.m.	**Welcome from NSF** V. Celeste Carter, ATE Program Director, National Science Foundation,
4:10 p.m.	**ATE National Centers Introductions & Resource Sharing** National Center for Next Generation Manufacturing (NCNGM) Environmental and Natural Resources Technology (EARTh) Center Center for Renewable Energy Advanced Technological Education (CREATE) Micro Nano Technology Education Center (MNT-EC)
4:30 p.m.	**What's Next? – ATE Connects Community Exploration & Small Group Discussions Overview**
4:30 – 5:30 p.m.	**Discipline-Based Small Group Breakouts**

ATE Connects Virtual Kick-Off

October 21 – 4:00 – 5:30 p.m. EDT

4:00 p.m.	**Welcome from NSF** V. Celeste Carter, ATE Program Director National Science Foundation
4:10 p.m.	**ATE National Centers Introductions & Resource Sharing** InnovATEBIO: National Biotechnology Education Center National Center for Autonomous Technologies (NCAT) National Cybersecurity Training & Education (NCyTE) Center
4:30 p.m.	**What's Next? – ATE Connects Community Exploration & Small Group Discussions Overview**
4:30 – 5:30 p.m.	**Discipline-Based Small Group Breakouts**

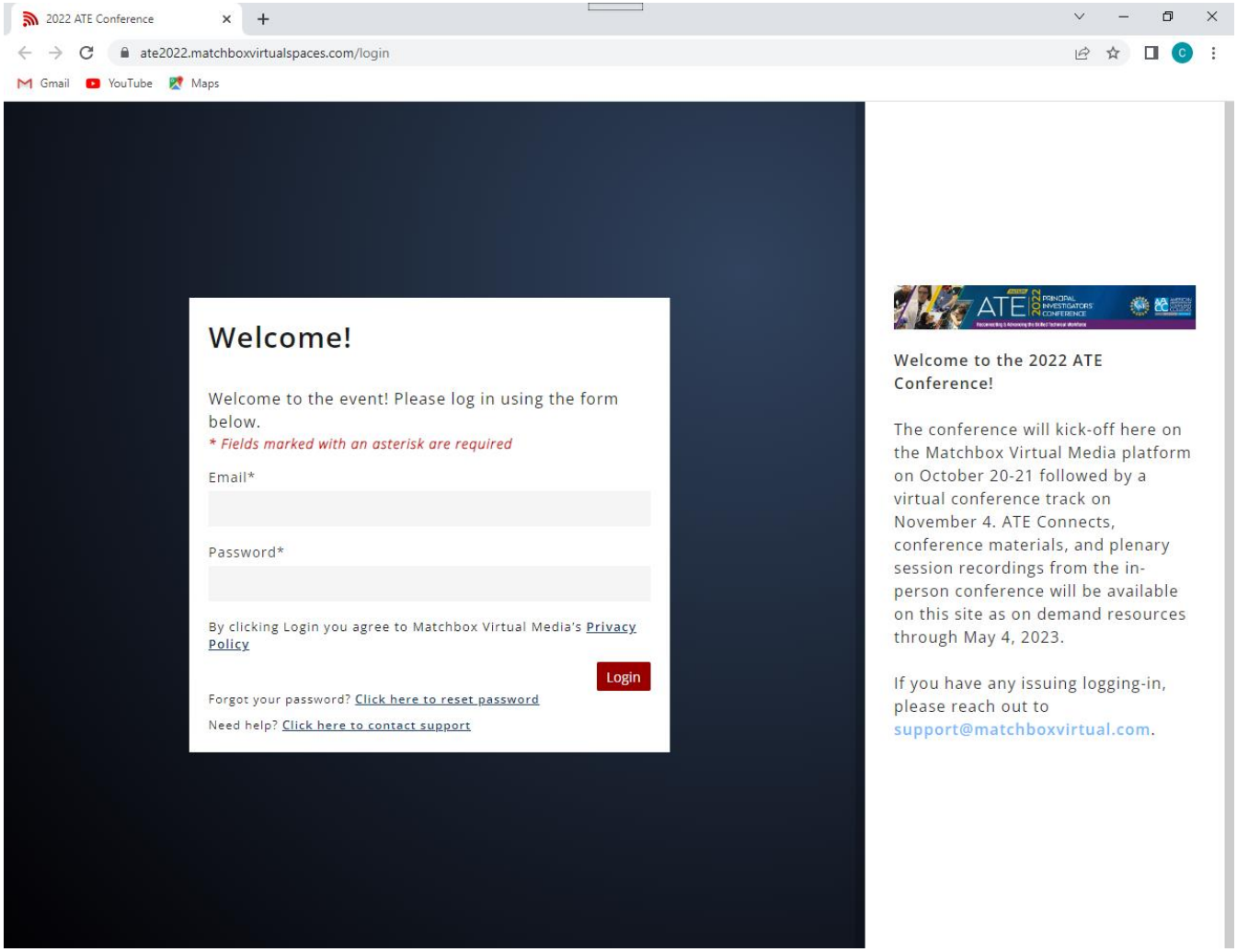
ATE Connects

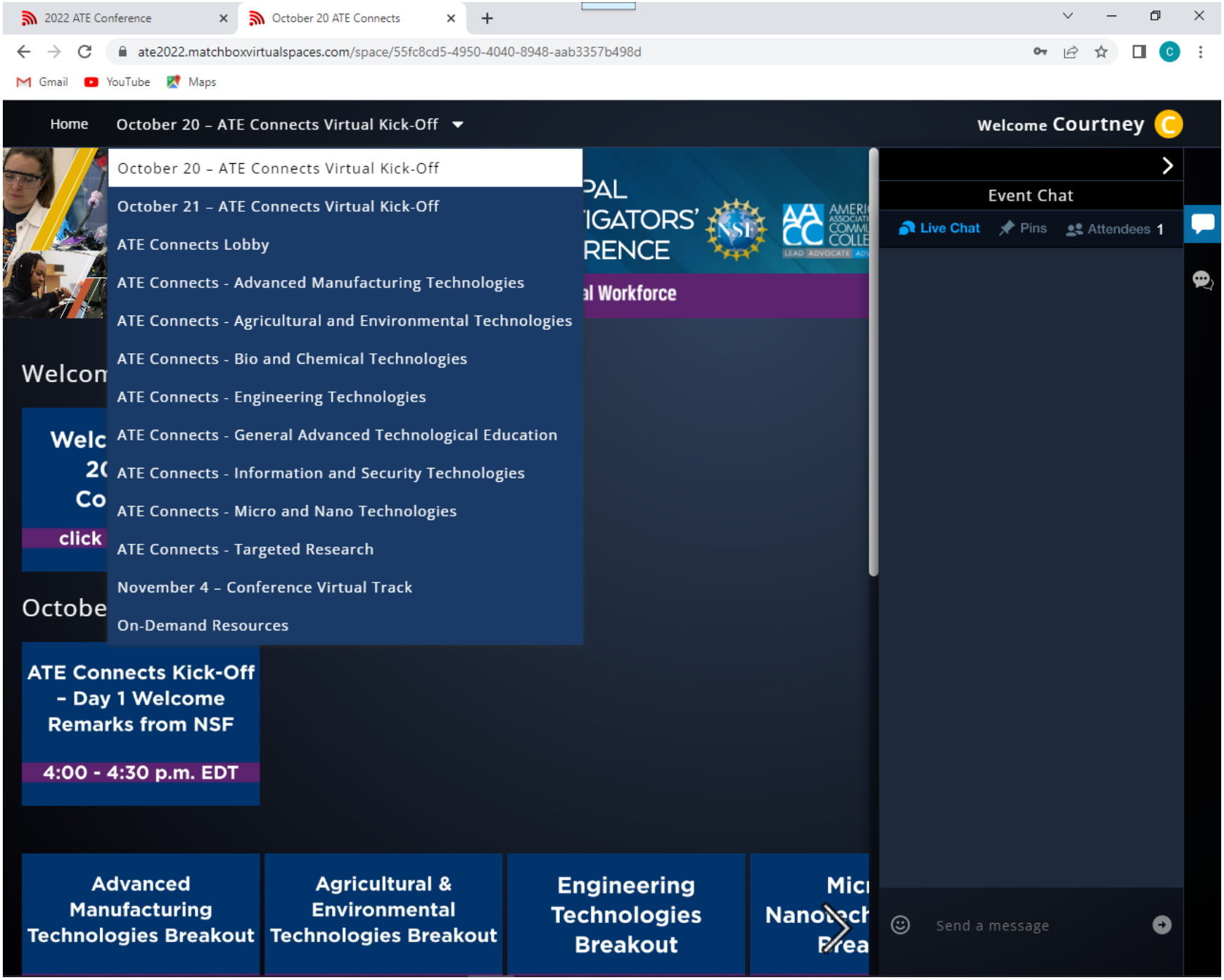
- Explore, engage, & connect with ATE projects & centers
  - Chat
  - Direct Message
  - Drop a business card
  - Join a Zoom discussion
- Grouped by eight STEM discipline areas
  - Four featured each session
- Filter by Institution, key contact, key focus area, master list

PLATFORM & ACCESS TIPS

- Conference Platform
- System Requirements

Conference Platform Opens on October 18




2022 ATE Conference
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October 20 – ATE Connects Virtual Kick-Off
Welcome Courtney
October 20 – ATE Connects Virtual Kick-Off
October 21 – ATE Connects Virtual Kick-Off
ATE Connects Lobby
ATE Connects - Advanced Manufacturing Technologies
ATE Connects - Agricultural and Environmental Technologies
ATE Connects - Bio and Chemical Technologies
ATE Connects - Engineering Technologies
ATE Connects - General Advanced Technological Education
ATE Connects - Information and Security Technologies
ATE Connects - Micro and Nano Technologies
ATE Connects - Targeted Research
November 4 – Conference Virtual Track
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ATE Connects Kick-Off – Day 1 Welcome Remarks from NSF
4:00 - 4:30 p.m. EDT
Advanced Manufacturing Technologies Breakout
Agricultural & Environmental Technologies Breakout
Engineering Technologies Breakout
Event Chat
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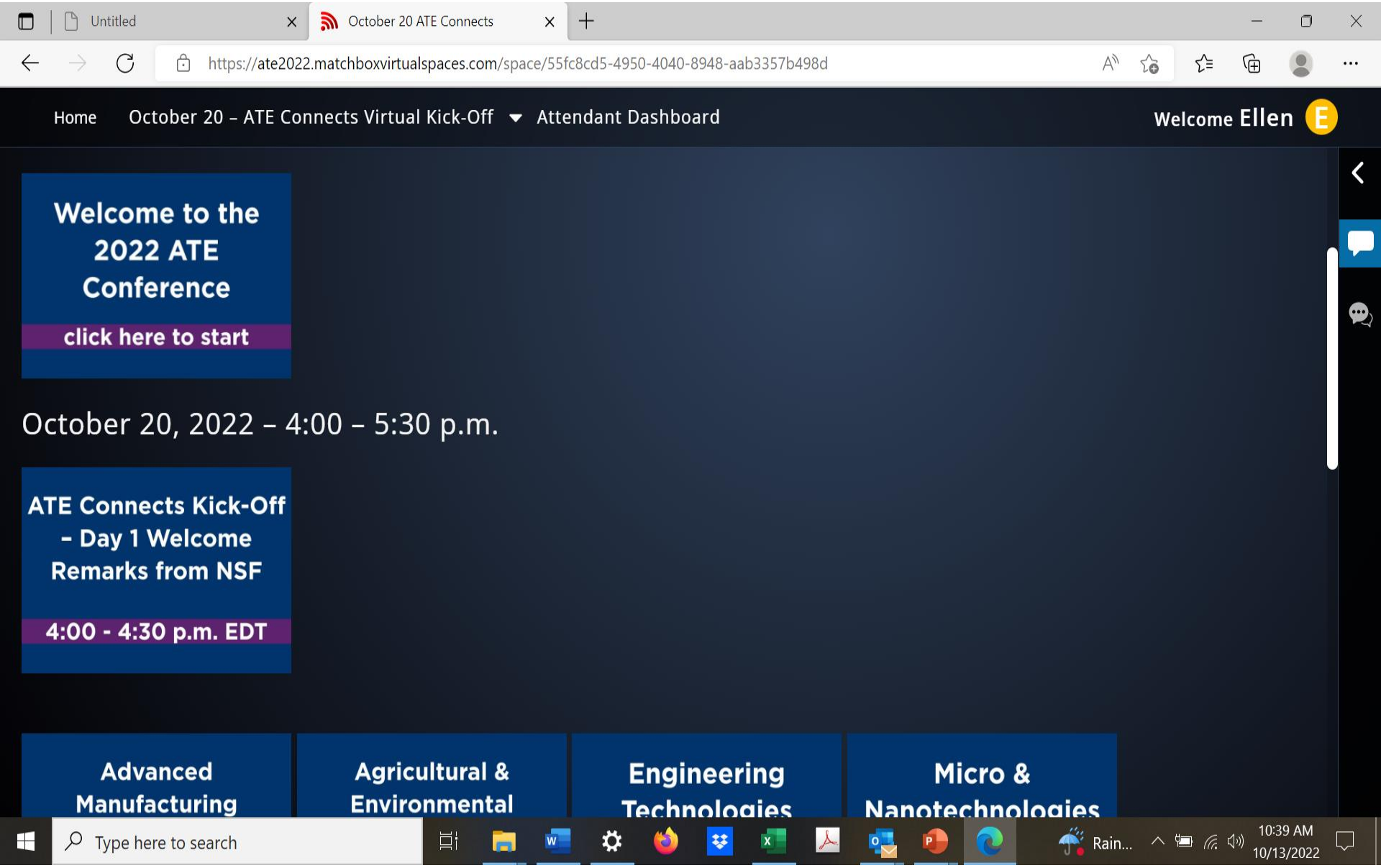
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Welcome Ellen
Welcome to the 2022 ATE Conference
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October 20, 2022 – 4:00 – 5:30 p.m.
ATE Connects Kick-Off – Day 1 Welcome Remarks from NSF
4:00 - 4:30 p.m. EDT
Advanced Manufacturing
Agricultural & Environmental
Engineering Technologies
Micro & Nanotechnologies
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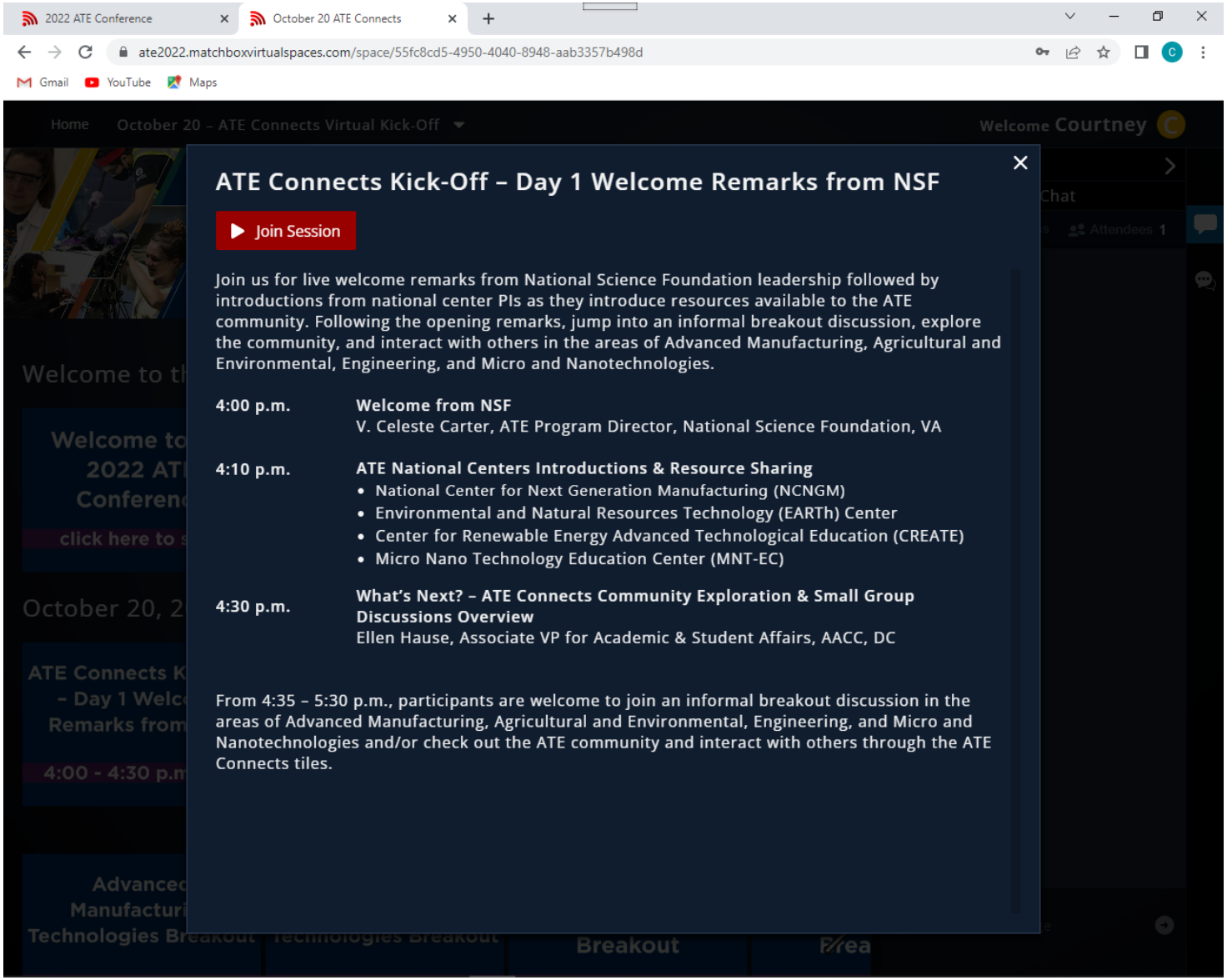
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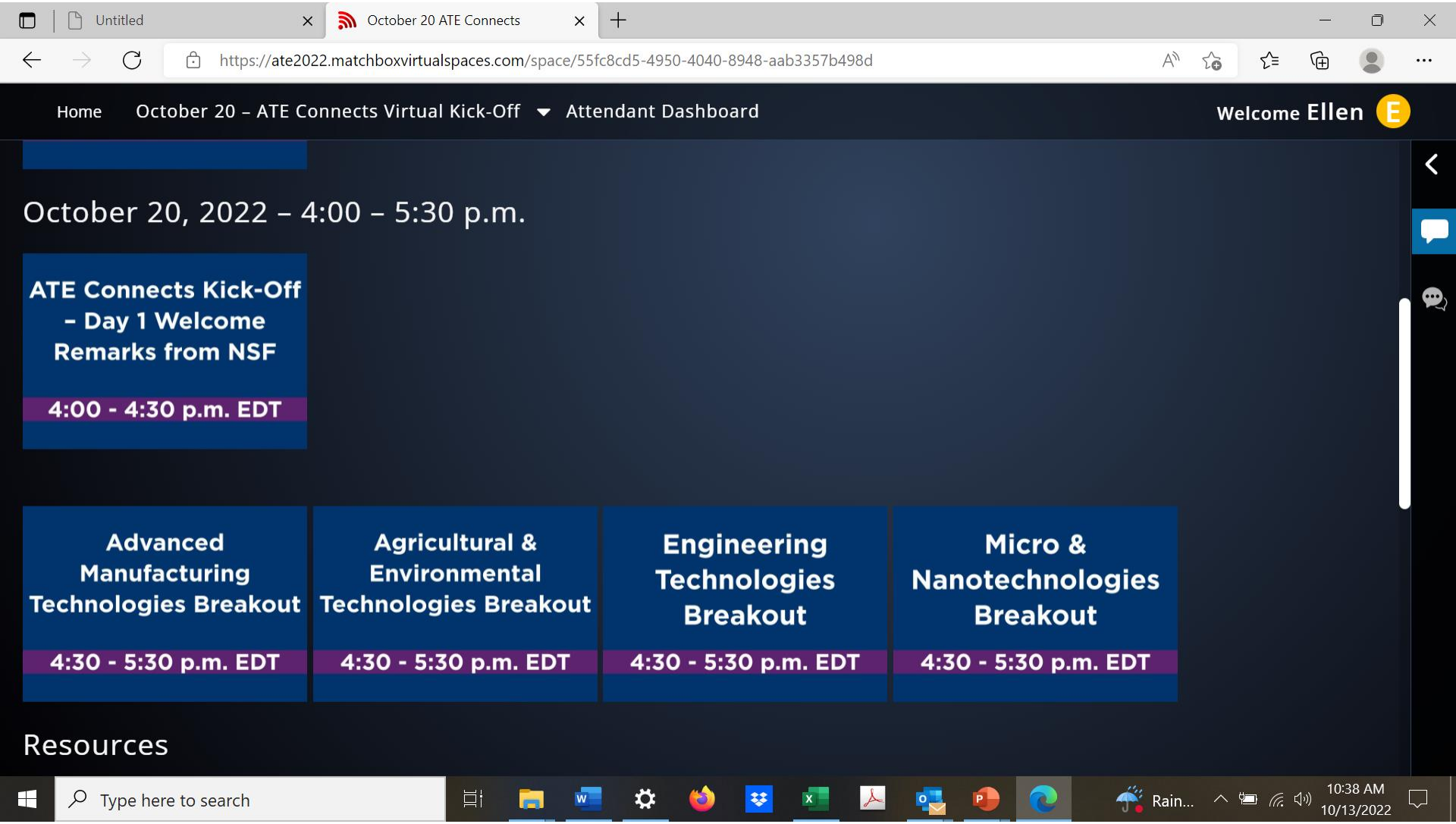
Welcome Courtney
ATE Connects Kick-Off – Day 1 Welcome Remarks from NSF
Join Session
Join us for live welcome remarks from National Science Foundation leadership followed by introductions from national center PIs as they introduce resources available to the ATE community. Following the opening remarks, jump into an informal breakout discussion, explore the community, and interact with others in the areas of Advanced Manufacturing, Agricultural and Environmental, Engineering, and Micro and Nanotechnologies.
4:00 p.m.
Welcome from NSF
V. Celeste Carter, ATE Program Director, National Science Foundation, VA
4:10 p.m.
ATE National Centers Introductions & Resource Sharing
National Center for Next Generation Manufacturing (NCNGM)
Environmental and Natural Resources Technology (EARTh) Center
Center for Renewable Energy Advanced Technological Education (CREATE)
Micro Nano Technology Education Center (MNT-EC)
4:30 p.m.
What's Next? – ATE Connects Community Exploration & Small Group Discussions Overview
Ellen Hause, Associate VP for Academic & Student Affairs, AACC, DC
From 4:35 – 5:30 p.m., participants are welcome to join an informal breakout discussion in the areas of Advanced Manufacturing, Agricultural and Environmental, Engineering, and Micro and Nanotechnologies and/or check out the ATE community and interact with others through the ATE Connects tiles.
Chat
Attendees 1
Breakout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4:00 - 4:30 p.m. EDT
Advanced Manufacturing Technologies Breakout
4:30 - 5:30 p.m. EDT
Agricultural & Environmental Technologies Breakout
4:30 - 5:30 p.m. EDT
Engineering Technologies Breakout
4:30 - 5:30 p.m. EDT
Micro & Nanotechnologies Breakout
4:30 - 5:30 p.m. EDT
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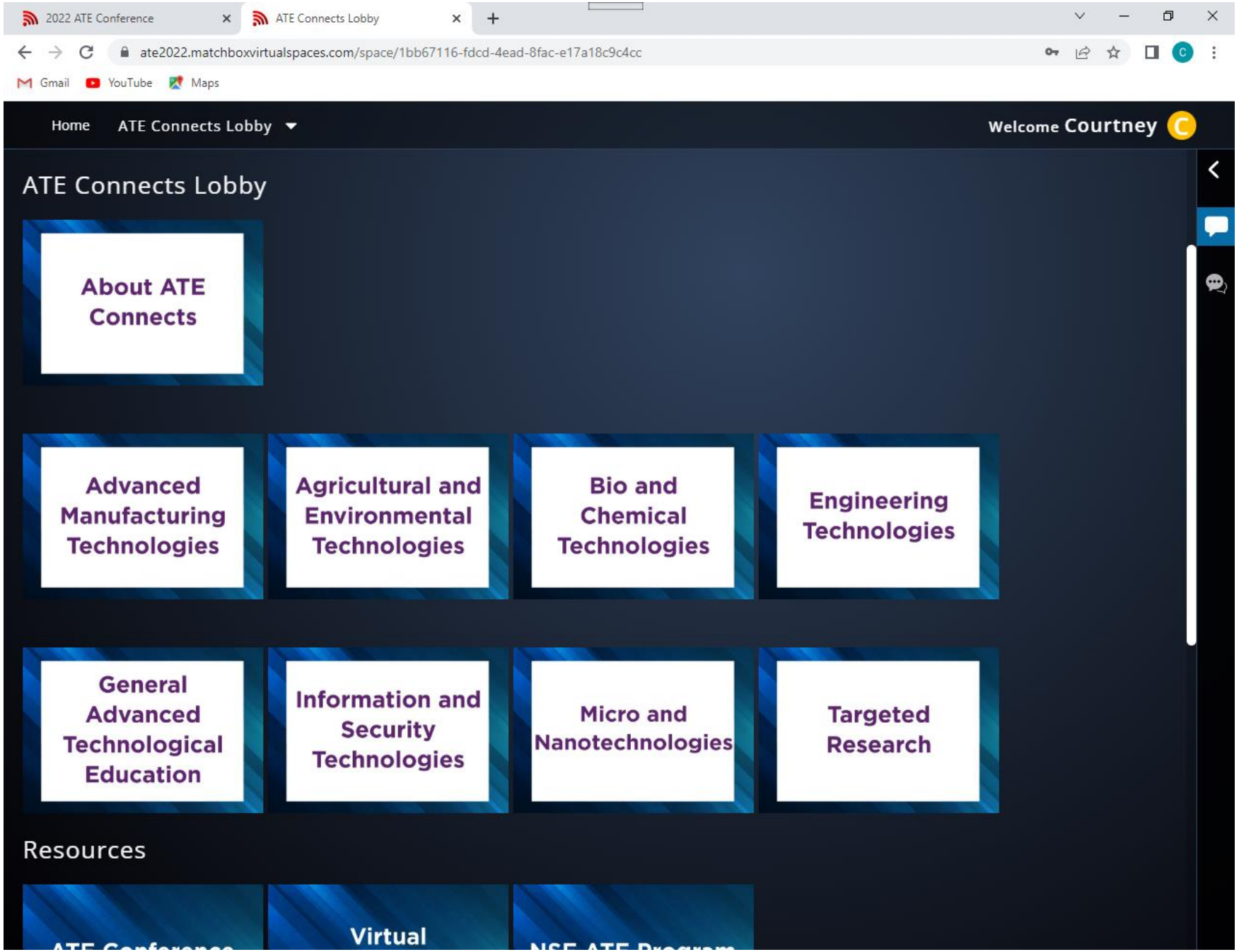
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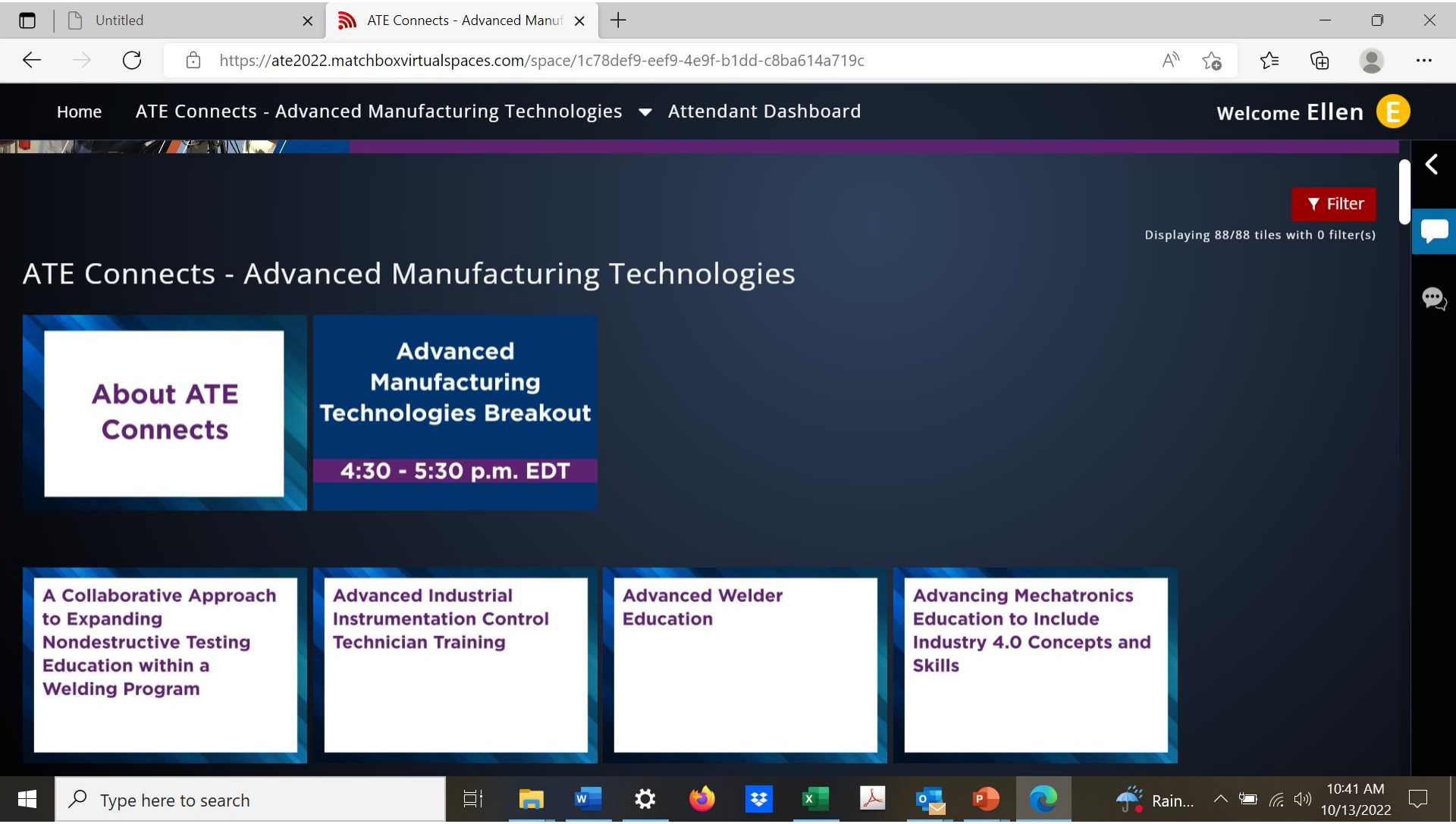
Welcome Courtney
ATE Connects Lobby
About ATE Connects
Advanced Manufacturing Technologies
Agricultural and Environmental Technologies
Bio and Chemical Technologies
Engineering Technologies
General Advanced Technological Education
Information and Security Technologies
Micro and Nanotechnologies
Targeted Research
Resources
Virtual

ATE Connects



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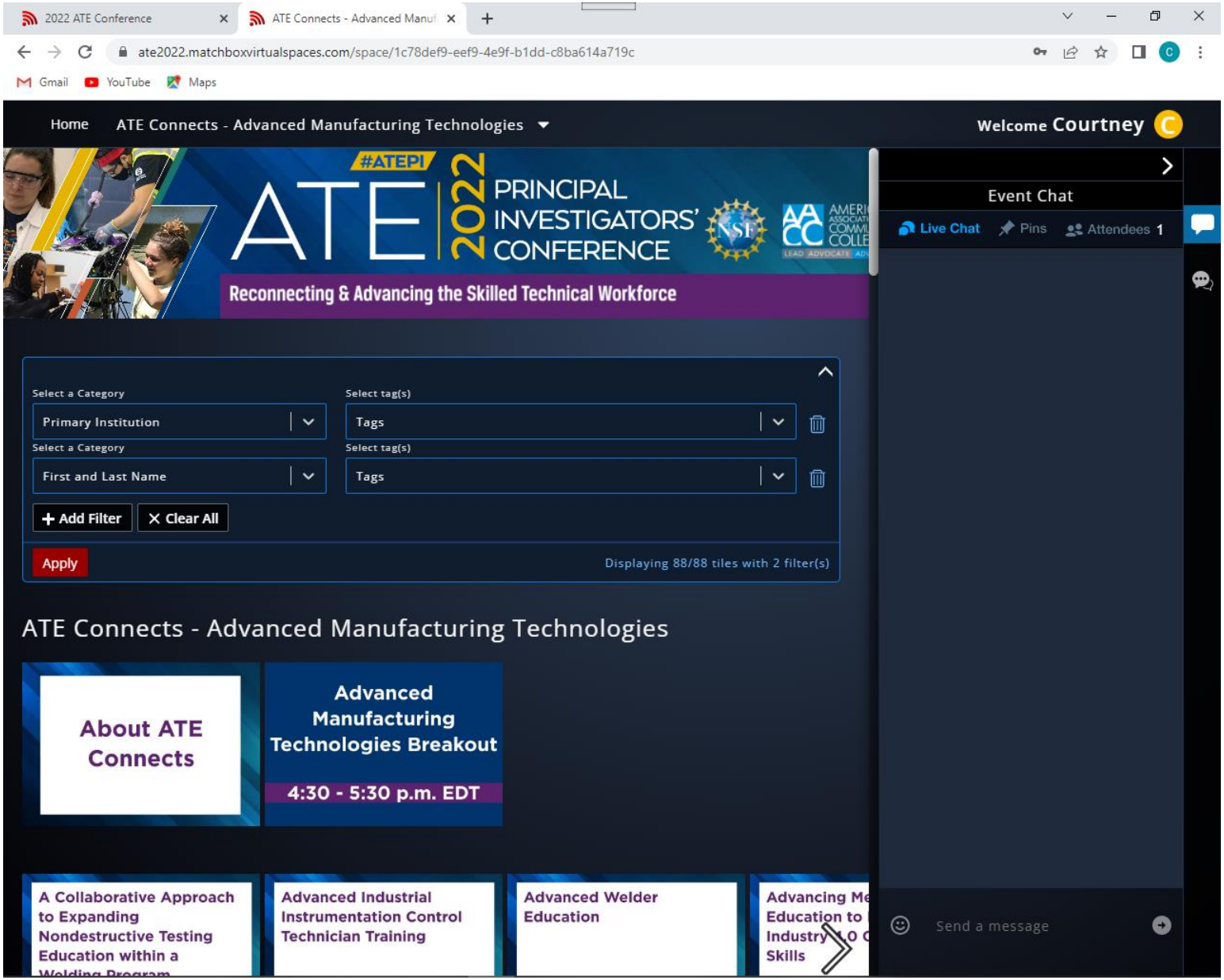
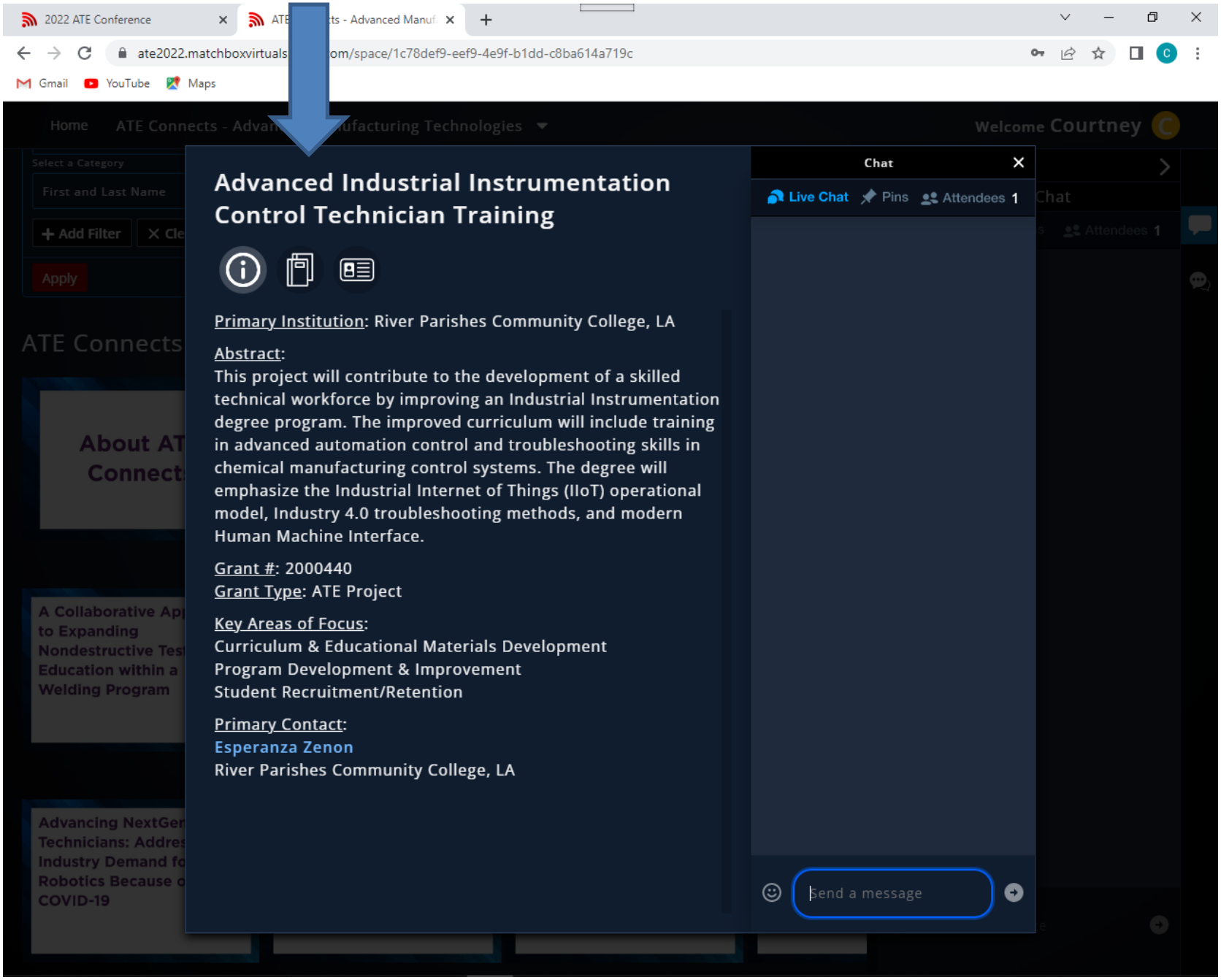




Advanced Industrial Instrumentation Control Technician Training

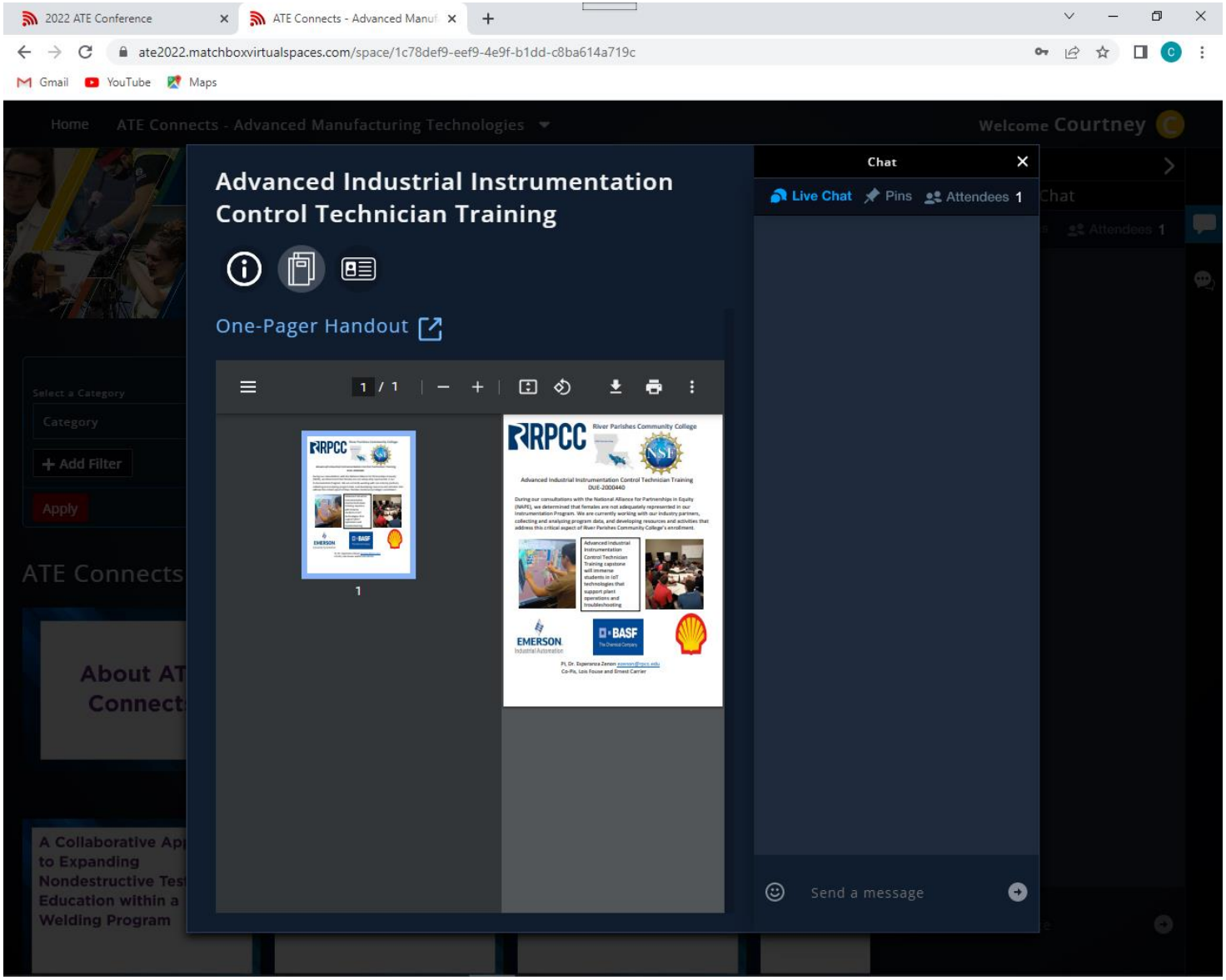
Primary Institution: River Parishes Community College, LA

Abstract:
This project will contribute to the development of a skilled technical workforce by improving an Industrial Instrumentation degree program. The improved curriculum will include training in advanced automation control and troubleshooting skills in chemical manufacturing control systems. The degree will emphasize the Industrial Internet of Things (IIoT) operational model, Industry 4.0 troubleshooting methods, and modern Human Machine Interface.

Grant #: 2000440
Grant Type: ATE Project

Key Areas of Focus:
Curriculum & Educational Materials Development
Program Development & Improvement
Student Recruitment/Retention

Primary Contact:
Esperanza Zenon
River Parishes Community College, LA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Advanced Industrial Instrumentation Control Technician Training
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River Parishes Community College
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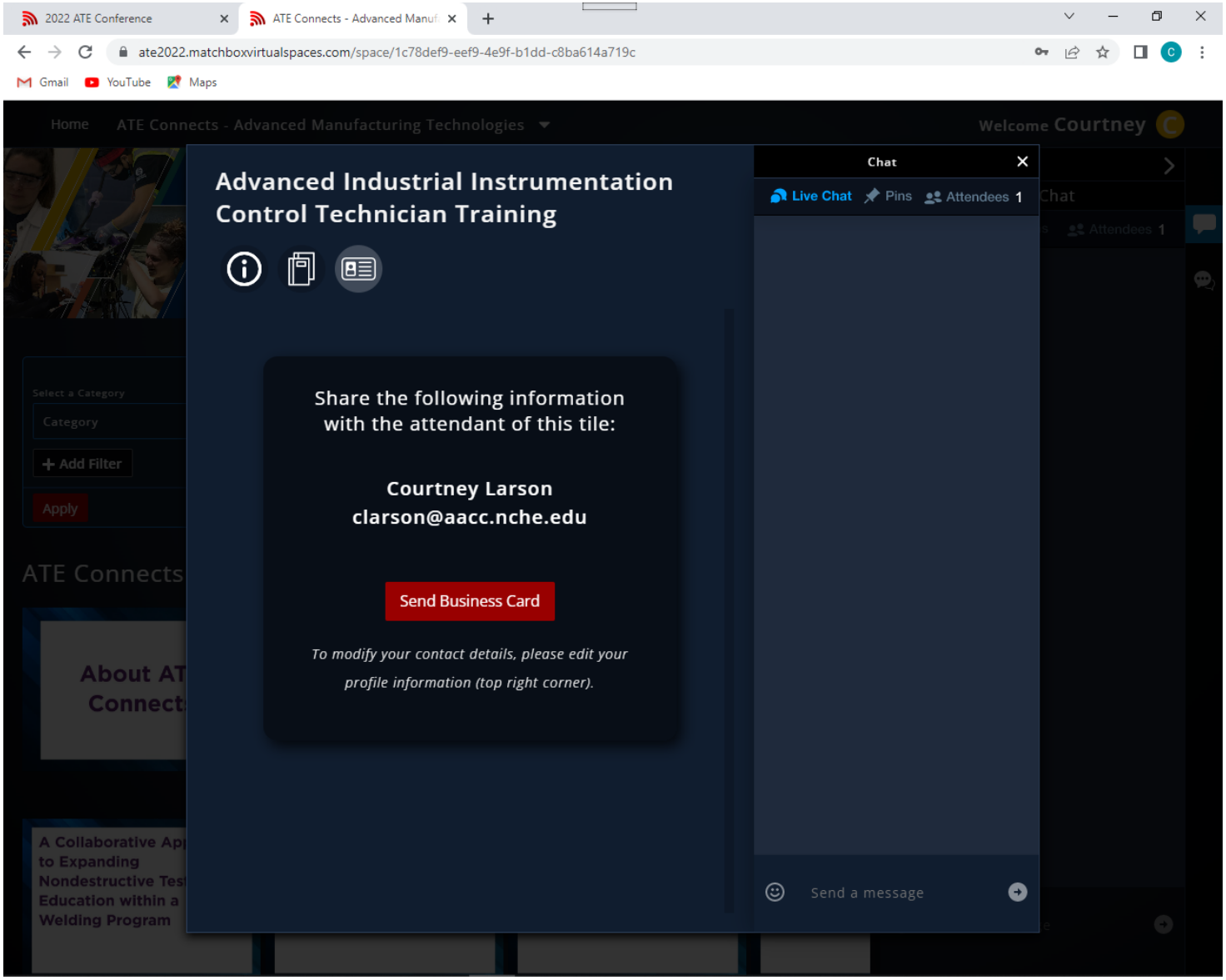
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Welcome Courtney
Advanced Industrial Instrumentation Control Technician Training
Share the following information with the attendant of this tile:
Courtney Larson
clarson@aacc.nche.edu
Send Business Card
To modify your contact details, please edit your profile information (top right corner).
Chat
Live Chat
Pins
Attendees 1
Send a message
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About AT
Connect
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Education within a
Welding Program

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Welcome to the 2022 ATE Conference

Welcome to the 2022 ATE Conference

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October 20, 2022 – 4:00 – 5:30 p.m.

ATE Connects Kick-Off

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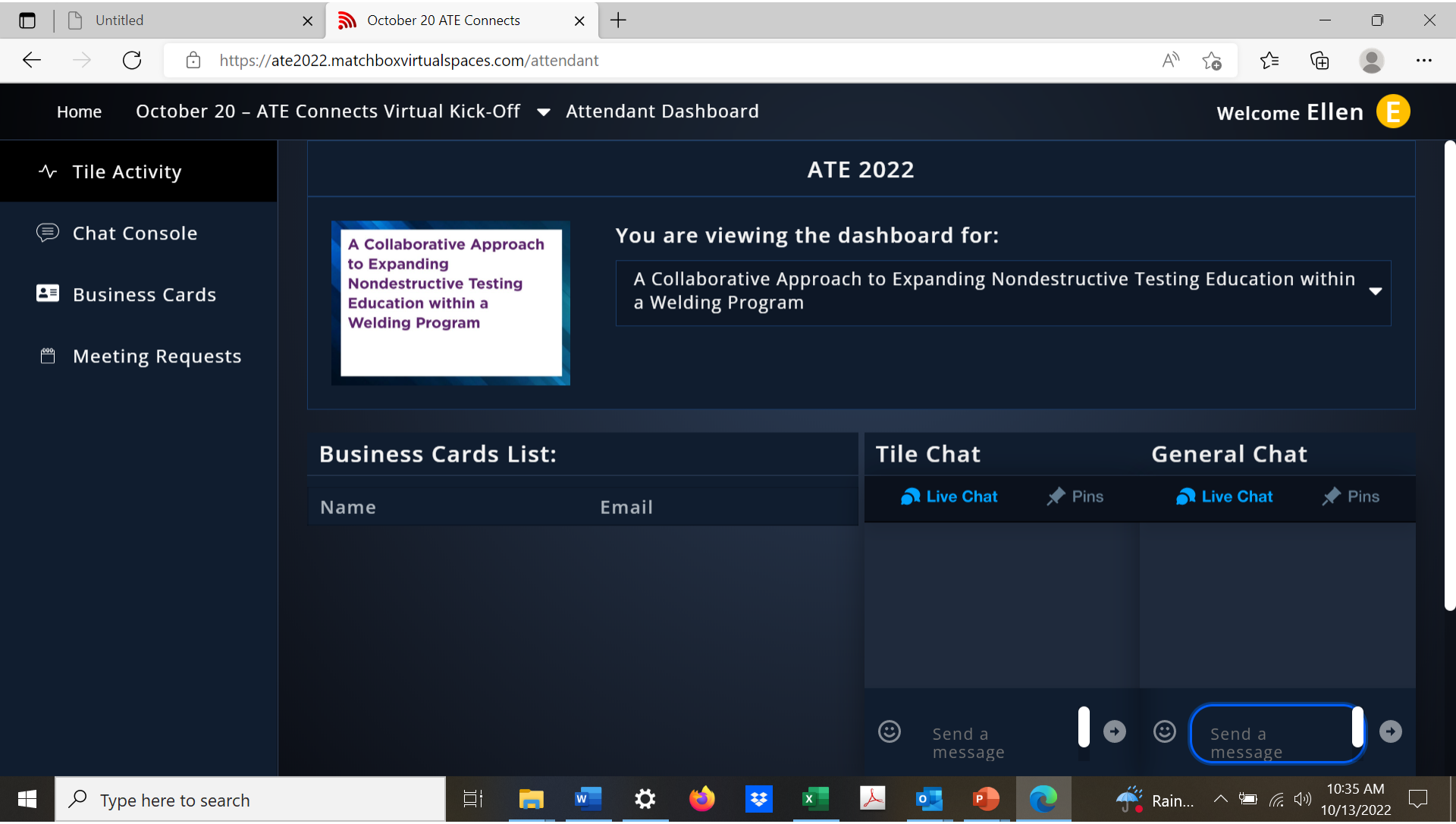
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Tile Activity
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Business Cards
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A Collaborative Approach to Expanding Nondestructive Testing Education within a Welding Program
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A Collaborative Approach to Expanding Nondestructive Testing Education within a Welding Program
Business Cards List:
Name
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Tile Chat
General Chat
Live Chat
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Virtual Track

November 4 – 1:00 – 4:00 p.m. EDT

Plenary Session - **Advancing URM Student Mobility in STEM Education: Beyond Diversity to Racial Equity**

Dr. Eboni Zamani-Gallaher, Professor of Education Policy, Organization and Leadership; Director of Office of Community College Research and Leadership (OCCRL); Executive Director of Council for the Study of Community Colleges (CSCC), University of Illinois, IL

Followed by 10 live sessions in Zoom Meeting

- 5 from 2:10 – 3:00 p.m.
- 5 from 3:10 – 4:00 p.m.

2022 ATE Conference | November 4 – Conference Virtua

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Gmail YouTube Maps

Home | November 4 – Conference Virtual Track | Welcome Courtney

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ATE 2022 PRINCIPAL INVESTIGATORS' CONFERENCE

Reconnecting & Advancing the Skilled Technical Workforce

Welcome to the 2022 ATE Conference Virtual Track

Welcome to the 2022 ATE Conference Virtual Track

click here to start

Plenary Session – 1:00 – 2:00 p.m. EDT

Advancing URM Student Mobility in STEM Education: Beyond Diversity to Racial Equity

1:00 – 2:00 p.m. EDT

Sessions – 2:10 – 3:00 p.m. EDT

Industry 4.0 Credentials: A Pathway to College Credit

Hacking Education – Leveraging Hackathons for Learning &

2+2+2 Guided Pathways in Agriculture Business & Technology – Promising Strategies in Student

Event Chat

Live Chat | Pins | Attendees 1

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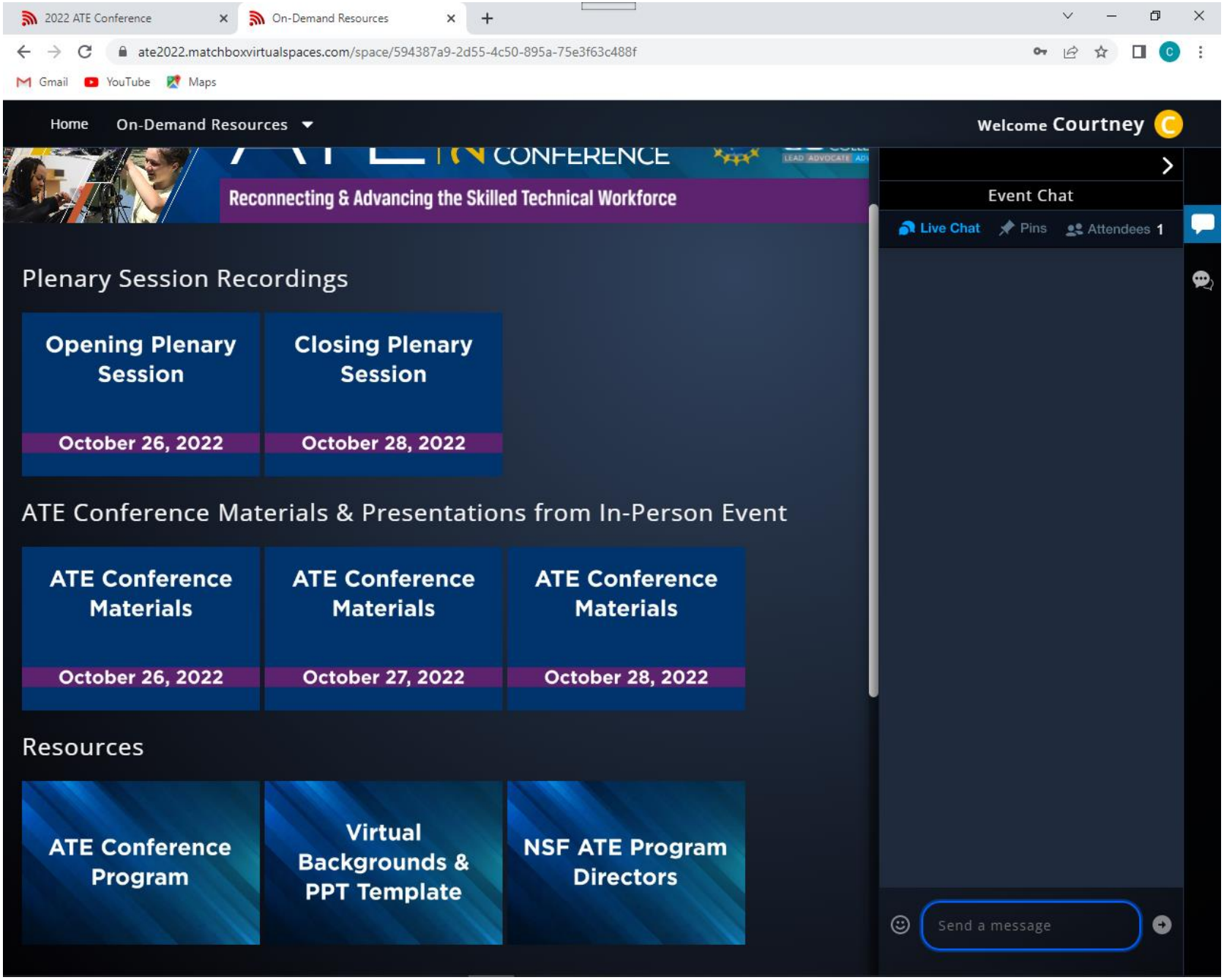
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CONFERENCE
Reconnecting & Advancing the Skilled Technical Workforce
Plenary Session Recordings
Opening Plenary Session
October 26, 2022
Closing Plenary Session
October 28, 2022
ATE Conference Materials & Presentations from In-Person Event
ATE Conference Materials
October 26, 2022
ATE Conference Materials
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October 28, 2022
Resources
ATE Conference Program
Virtual Backgrounds & PPT Template
NSF ATE Program Directors
Event Chat
Live Chat
Pins
Attendees 1
Send a message

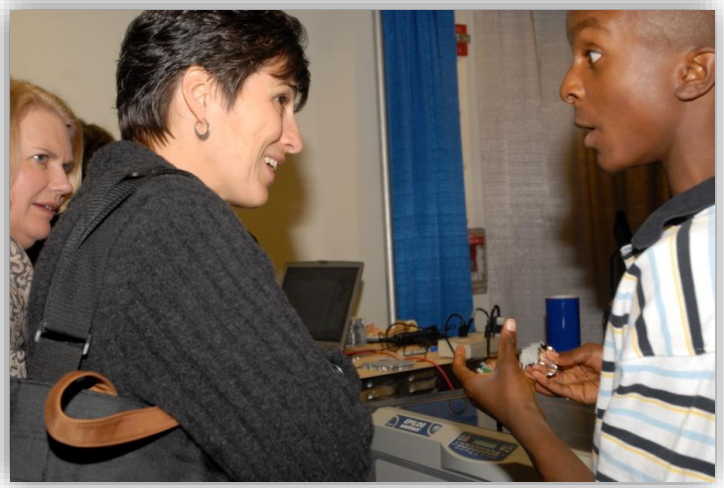
System Requirements

- The platform is Zoom-based, make sure you are running the most updated version.
- Connect through laptop or desk-top.
- Enable all pop-ups.
- The platform is designed to work best on Google Chrome, but it should work on all current browsers, including Edge and Firefox.
  - Internet Explorer is not compatible with this platform and will not work.
- View complete System Requirements and tips for access
  - www.ATEPIConference.com
  - Help Desk and AACC Corner provided on each platform page throughout event!

Questions or Comments?

In-Person Conference – October 26-28

- Come early & stay to the end!
- Split your team
- Expect to be busy



Pre-Conference Workshops

2022 Workshops

A. Getting Started for New Grantees

B. Workshop B: Tools for Adopting the Framework for a Cross-Disciplinary STEM Core

C. Workshop C: Culturally Responsive Teaching & Learning – How to Infuse DEI Across the STEM Curriculum

D. Workshop D: Critical Friends – Strengthening and Sustaining Industry Partnerships

E. Workshop E: Engaging Intentionally with Diversity, Equity, and Inclusion in your ATE Evaluation

Plenary Sessions

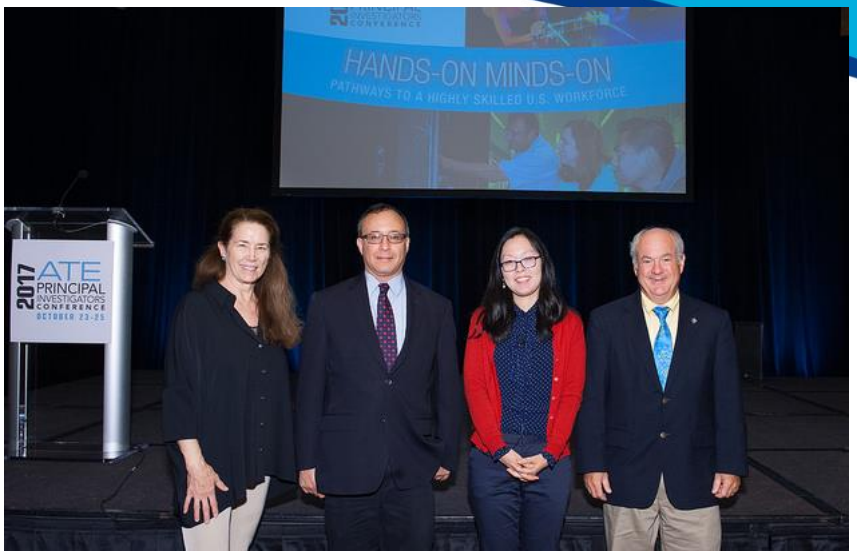
Opening Plenary Session: **Choose Growth – Preparing Students for a Post-Pandemic World**

Keynote Speaker: **Scott Barry Kaufman**, Cognitive Scientist and Humanistic Psychologist, Founder, Center for The Science of Human Potential, & Host: The Psychology Podcast

Friday Plenary Session: **Preparing Students for a Post-Pandemic Workforce – A Collaborative Approach**

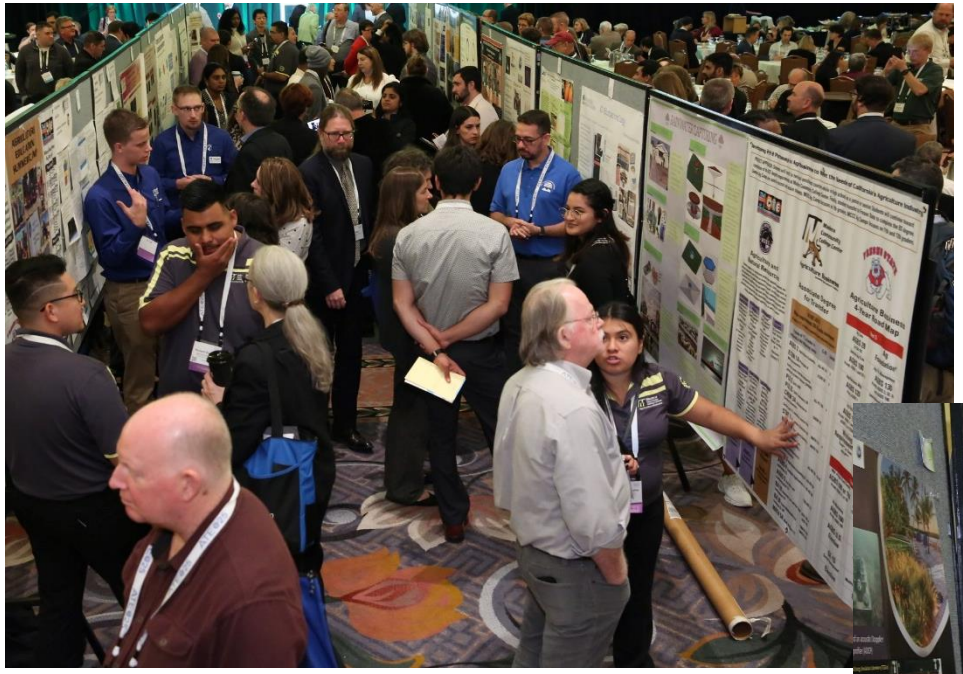
Keynote Speaker: **Allyson Knox**, Senior Director of Education Policy and Programs, Microsoft, DC

Plenary Sessions



Opening Night – Student Posters

- Student Poster Session & Dessert Reception



Concurrent Sessions

Concurrent Sessions

Concurrent 1: ATE Best Practices for the Convergence of Disciplines

Concurrent 2: Creating Inclusive STEM Education Environments for Student Success

Concurrent 3: The National Talent Hub – Connecting Community Colleges and Advanced Manufacturing Employers

Concurrent 4: ATE Student Spotlight – Strategies for Engagement & Success

Student Sessions

- Student Concurrent Session

Conference Sessions

Thursday:
Spotlight
Birds of a Feather
Demonstrations

Friday:
High-Impact Workshops
Synergy Meetings

Lunch Roundtables

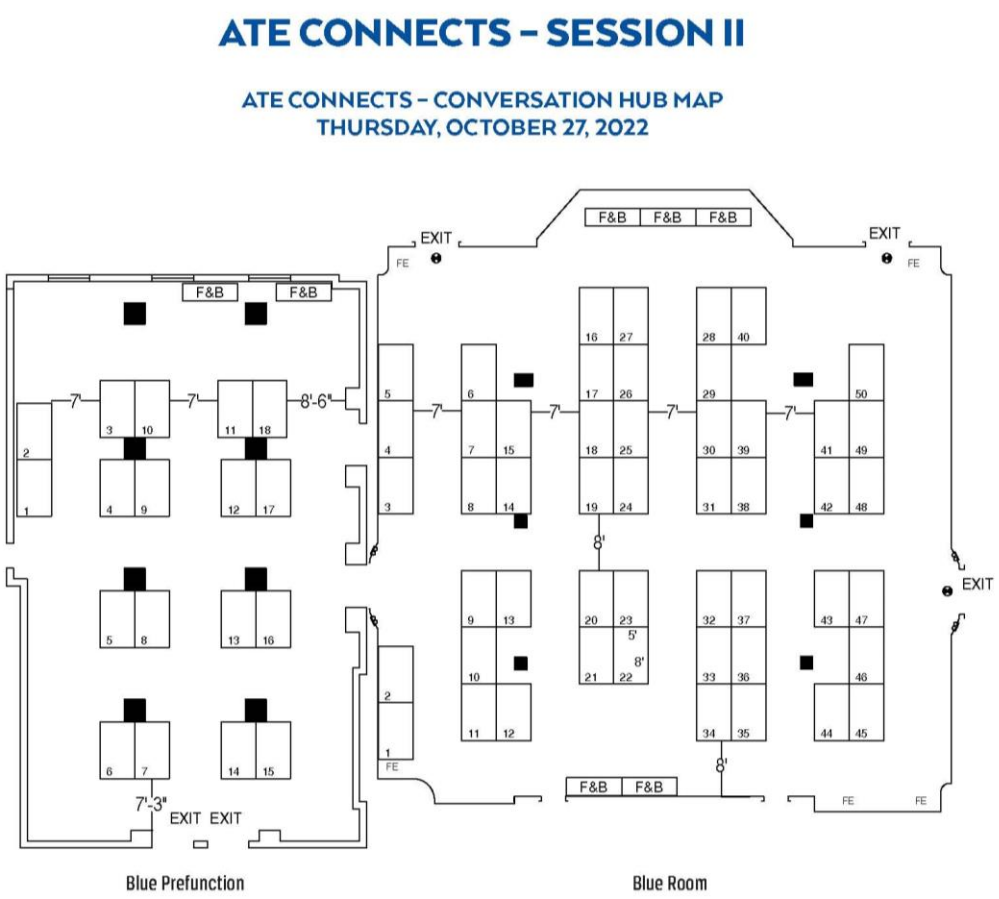
ATE Connects & Refreshments

- **ATE Connects Session 1, Thursday, October 27**
  Discipline Areas Featured: Advanced Manufacturing, Agricultural and Environmental, Engineering, and Micro and Nanotechnologies
  - ATE Connects Session: 10:30 a.m. – 12:15 p.m.

- **ATE Connects, Session 2, Thursday, October 27**
  Discipline Areas Featured: Biological and Chemical, General Advanced Technological Education, Information and Security, Targeted Research
  - ATE Connects Session: 3:45 – 5:30 p.m.

ATE Connects

- Conversation Hubs!
- Information Sharing & Networking



ATE Connects

ATE CONNECTS SESSION II–ABSTRACTS

THURSDAY, OCTOBER 27 | 3:45 – 5:30 P.M. | BLUE PREFUNCTION & BLUE ROOM

ATE Conversation Hubs

BLUE PREFUNCTION

Biological & Chemical Technologies

Hub #: 01–Blue Prefunction

InnovATEBIO National Biotechnology Education Center

Primary Institution: Austin Community College District, TX

Discipline: Bio and Chemical Technologies

Grant Type: ATE Center

InnovATEBIO addresses the need to educate highly skilled technicians for the nation's biotechnology workforce by providing leadership in biotech technician education, including support for the development and sharing of best practices and emerging technologies in biotechnology workforce development, through Hubs, a decentralized infrastructure for specific expertise. InnovATEBIO supports a cadre of well-trained instructors to increase the number and quality of biotechnology education programs, and helps introduce a wide range of underrepresented students to biotechnology education.

Hub #: 02–Blue Prefunction

Dual Credit High School Community College DNA Sequencing and Genomics Project

Primary Institution: Austin Community College District, TX

Discipline: Bio and Chemical Technologies

Grant Type: ATE Project

The Dual Credit High School Community College DNA Sequencing and Genomics Project is establishing a first of its kind DNA sequencing and genomics facility. The facility is located in Austin, TX on the Liberal Arts and Science Academy High School Campus and run by dual credit high school and two-year Austin Community College Biotechnology students and faculty. Students operate the facility as part of their curriculum to complete an Industry recognized Level-I Certificate in Biotechnology from Austin Community College through dual credit high school and community college courses.

Hub #: 03–Blue Prefunction

Skills for Biomedical Emerging Technology Applications

Primary Institution: Forsyth Technical Community College, NC

Discipline: Bio and Chemical Technologies

Grant Type: ATE Project

Eleven participants, comprised of community college instructors and high school teachers representing 9 states, took a 5-day BETA Skills industry vetted professional development program at the National Center for the Biotechnology Workforce, Forsyth Tech Community College, in Winston-Salem, NC, on June 19-24, 2022. The workshop covered topline industry concerns, based on industry feedback sessions. These were People Skills in Communication and Ideation; Good Documentation Practices (GDP); and the technical skills of Good Manufacturing Practices (GMP), including Gowning & Cyberbiosecurity.

Hub #: 04–Blue Prefunction

Building the Cell Therapy and Flow Cytometry Workforce

Primary Institution: Frederick Community College, MD

Discipline: Bio and Chemical Technologies

Grant Type: Small Grants for Institutions New to the ATE Program

Frederick Community College's (FCC) Building the Cell therapy and Flow Cytometry Workforce, New to ATE grant will bring affordable training for the cutting-edge cell and gene therapy industry that is booming in Maryland. The grant will be fund a new initiative to introduce a curriculum that is focused on cell therapy and flow cytometry. The focus on flow cytometry will make FCC one of the first community colleges in the country to offer education in this critical analytical technique. The grant will also help FCC provide that critical training and meet the local industry workforce demands.

Hub #: 05–Blue Prefunction

Integrating Biotechnology and Applied Engineering to Meet Emerging Advanced Technological Workforce Needs (Bio Blend 1.0)

Primary Institution: Johnston Community College, NC

Discipline: Bio and Chemical Technologies

Grant Type: ATE Project

Johnston Community College was awarded a New to ATE Small Project in 2019. The project goals are to: (1) create and implement a unique curriculum certificate integrating bioprocess technology and applied engineering; (2) create a multi-skilled talent

COMMON QUESTIONS

- Identifying your ATE Program Officer
- Attire
- Internet
- Health & Safety

Identifying Your ATE Program Officer

- www.teachingtechnicians.org
  Click on » Help for ATE PIs
- List on virtual platform
- Program
- Plenary
- Table outside of ATE Connects

Conference Attire

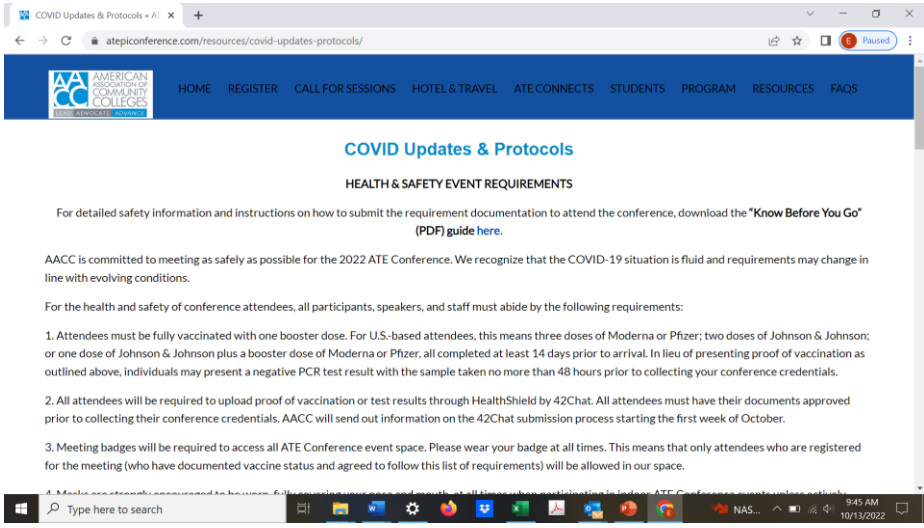
- Business casual
- Comfortable shoes
- Dress in layers

Internet Access

- Complimentary wireless access in sleeping rooms, hotel common areas, and meeting space

Health & Safety

- Information distributed in registration materials, registration pathway, and on conference website
- Vaccination & Testing requirements
- Submission through 42 Chat
- Detailed Know Before You Go
- Questions: ATEWellness@aacc.nche.edu



Questions?

CONTACT INFORMATION

- Email: ate@aacc.nche.edu
- Web: www.ATEPIConference.com