

## HI-TEC 2020 Transformed: Day One Chat Log

This log has been edited

Rachael Bower: Welcome everyone to HI-TEC Transformed!! We are so glad to have you all with us. As Mike mentioned the conference is being recorded and you will have access to the recording. Also - please put any questions in the chat window!! Or you can also use the Q&A.

Rachael Bower: Just a reminder - if you would like everyone (both panelists and attendees) to see your posts in chat you need to choose the appropriate list in the chat window options.

Rachael Bower: If you'd like to learn more about the ATE community and what grantees are doing - check out the ATE Impacts Book: <https://ateimpacts.net/book>

Ashok Agrawal: Good Day! Ashok Agrawal, Washington, DC. Co-PI of "Profiles of Technical Workforce Programs and Students at (ATE) Two-Year Colleges"

Rachael Bower: You can also check out the NSF's ATE page - as Dr. Carter mentioned: [https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5464](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5464)

Mike Lesiecki: Advanced Technological Education

Rachael Bower: And read the RFP to learn how to apply for funding: [https://www.nsf.gov/publications/pub\\_summ.jsp?WT.z\\_pims\\_id=5464&ods\\_key=nsf18571](https://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=5464&ods_key=nsf18571)

Rachael Bower: Just a reminder - the meeting is being recorded - and you will have access to the recording!

Mike Lesiecki: [https://www.highimpact-tec.org/hitec2020\\_trans\\_sessions.php](https://www.highimpact-tec.org/hitec2020_trans_sessions.php)

Mike Lesiecki: that is the asynchronous link

Elaine Craft: Hello to everyone from Mentor-Connect ([www.Mentor-Connect.org](http://www.Mentor-Connect.org)). This ATE-funded project provides mentoring and technical support to help you be successful in preparing and submitting a proposal to the NSF ATE Program described by Dr. Carter. Applications for 2021 mentoring are

Charlotte Purdy: [https://www.highimpact-tec.org/hitec2020\\_trans\\_sessions.php](https://www.highimpact-tec.org/hitec2020_trans_sessions.php)

Janis Thompson: Hi Mentor Connect friends-they are the very best! As a grant writer I was very afraid of the NSF grant process-they made it possible to become an ATE grantee! Wonderful program!

Matthias Pleil: Join the MNTeSIG community - check it out at <https://www.mntesig.net/>  
More networking opportunities!

Beverly Hilderbrand: Hello from Beverly Hilderbrand in Alabama, long-term ATE member.  
Would love to share what is happening with Supply Chain Automation if  
you would like to contact me. [www.beverly@supplychainautomation.com](mailto:www.beverly@supplychainautomation.com)

Mike Lesiecki: Links to Laura's slides and recording will be sent after the conference

Sam Samanta: Hello from Finger Lakes Greater Rochester, NY!  
<http://www.flcc.edu/ICTech> "Smart Systems Technologies"

Dr. A. Khan: Please share links for online teaching resources, events, and  
opportunities at your schools. Thanks.

Nai Wang: I use resolution Test extension on Chrome to set my browser window to a  
specific size and only cast that window so it fits most devices and  
resolutions. Never use 1920 x 1280 Too much needless video data  
going out causing stutters.

Nai Wang: I usually use 1024 x 768  
.

Juel smith: what is the event platform that was used?

Billie Copley: PMI (Project Management Institute) uses an online conference platform  
and it is great. They get up to 40,000 participants per day coming through  
and things always seem to run smoothly.

Juel smith: Laura's

Donna Lange: Accessible online instruction resources from DeafTEC at  
<https://deaftec.org/teaching-learning/online-teaching-and-learning/>

Ann Beheler: All - I asked Laura not to be vendor-specific throughout the presentation;  
however, I told her that I would ask her about the platform is an attendee  
asked, so I will do that. I do not want to ask for her comments on specific  
platforms; you can contact her directly, and I am sure she will answer  
those questions.

Mike Lesiecki: I want to hear more about the white rabbits

Emma Leeburg: We just had a side conversation about "why white rabbits"— Easter  
eggs? Alice and Wonderland both came up.

Emma Leeburg: Though we love the idea.

Bob Ehrmann: [laura@chappellu.com](mailto:laura@chappellu.com)

Nai Wang: I think Matrix! White rabbit

Gordon Snyder: Kaltura works great for recorded video

Gordon Snyder: agree - low tech audiences on mobile

Bob Ehrmann: metageek.net I think :)

Emma Leeburg: <https://www.metageek.com/training/>

Emma Leeburg: Online Platform: <https://engagez.com/>

Jonathan Beck: Great presentation! Laura, I will be connecting on VR developments that NCAT is currently working on for fall workshops.

Laura Chappell: I'm here for you! Happy to help out folks! [laura@chappellu.com](mailto:laura@chappellu.com)

Laura Chappell: "Faster WiFi for Working from Home" - free online training - here's the direct link: <https://www.metageek.com/training/>

Sarah Miller: @Elton - yes, click in the chat - just click on one of the messages and type "CTRL+A" to select all. Then either type "CTRL+C" to copy or right click and select copy, and then paste in a word document.

Ann Blackman: I'm able to save the chat by going down to the bottom of the chat list - where I'm typing right now. There's a box with 3 dots in the upper right hand corner of this box. Click on that.

Russ Read: COVID-19 Educational and Institutional Strategies

**Moderator:**

Mary Slowinski \_ [maryslowinski@comcast.net](mailto:maryslowinski@comcast.net)

**Panelists:**

Jill Zande(Monterey Peninsula College, CA) [izande@marinetech.org](mailto:izande@marinetech.org)  
– impacts of COVID on internships, workplace-based learning

Ann Blackman(Collin College, TX) [ABlackman@collin.edu](mailto:ABlackman@collin.edu)  
-online pedagogical strategies

Kevin Cooper(Indian River, FL) [kcooper@irsc.edu](mailto:kcooper@irsc.edu)  
– institutional strategies for labs, student management

Todd Oldham (Monroe CC, NY) [toldham@monroecc.edu](mailto:toldham@monroecc.edu)  
– institutional/educator technical readiness

Tom Tubon(Madison TC, WI) [tubon@madisoncollege.edu](mailto:tubon@madisoncollege.edu)

Mary Slowinski [maryslowinski@comcast.net](mailto:maryslowinski@comcast.net)

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Russ Read:

Tom Tubon(Madison TC, WI) [tubon@madisoncollege.edu](mailto:tubon@madisoncollege.edu)

James Dekloe:

It's pretty impressive that the entire higher education enterprise in the United States pivoted within two weeks to an entirely different delivery system - it's pretty impressive

Dr. A. Khan:

What technical strategies and solutions could be used to reach low tech audiences for online education?

### **Chat Moderator**

Gordon Snyder: agree on low tech question. almost all students have phones, not all have computers and broadband. the mobile device should be considered as lowest common denominator

Satya:

Excuse my ignorance but what is CTE?

Sarah Miller:

CTE - career technical education :)

James Dekloe:

Career Technical Education - what we used to call Vocational Ed

JB Groves III:

For hands on handling of PC Hardware and fiber optic components...latex gloves mandatory?

Poornima Rao:

Career Technical Education (CTE) is an education pathway that provides students with the academic, technical, and real world knowledge, skills and experience they need to be prepared for a variety of career options

JB Groves III:

What PPE is mandatory for labs and instructors?

Kevin Cooper:

Masks are required for all classrooms and cleaning supplies are at each station. Cleaning protocols were embedded at beginning and end of every lab

JB Groves III:

...and students...moving around is a distanced lab environment...?

James Dekloe:

Many biotechnology programs fall into the same category as Welding, Drafting, Automotive, Cosmetology, etc.

Laura Chappell:

Discord ([discord.com](https://discord.com)) offers an online collaboration engine. Want to try it out? DEFCON 2020 will be free this year using Discord for its "Villages." I am hosting the #deep-space-networking" channel in the Aerospace

Village. Visit <https://www.defcon.org/html/defcon-safemode/dc-safemode-villages.html> for information. Come talk with me on Discord. I am visible under my full name as "LauraChappell."

Nai Wang: I personally love Discord and Slack, but we all get inundated with new communication methods so it's hard to get faculty to come on board with new means of communications. I hate email personally.

Laura Chappell: MAJOR kudos to the ED community for pivoting so quickly to online!!! Incredible show of force and flexibility! Truly impressive!

Fred Julian: Would you address liability in Covid?

Fred - A big issue. We will try to ask what colleges are doing, but I am not sure we will get time. I heard on the news that private schools are requiring parents to sign a NO Liability statement for K-12

Anita Wright: very smart -- gives students some 'power' over COVID too - they are doing something to help manage it

Mike Lesiecki: CT College's face shield project supported by ATE grant in part, <https://www.nwcc.edu/news/cscu-institutions-partner-to-create-face-shields-and-devices-for-connecticut-health-care-providers/>

Serob Makhmuryan: QUESTION - I would like to understand how online education will take over lab experience and hands on practice?

Jill Zande: JB, we are an education and outreach component of a proposal MBARI submitted with other research institutions that will be funded shortly. Look for some interesting additions to competition challenges in the near future!

JB Groves III: What about COVID for special needs students?

Dr. A. Khan: What issues related to technical currency of professors ought to be addressed?

JB Groves III: COVID protection for special needs students...

Satya: ATE community? What is it?

Jim Heffernan: ATE = Advanced Technical Education

Emma Leeburg: ATE: Advanced Technological Education Program. It's a program through the National Science Foundation (NSF). Most of the panel is funded through grants on this program.

Pam Silvers: ATE is an NSF funded program. NSF ATE (Advanced Technology Education)

Emma Leeburg: You can find out more here:  
[https://www.nsf.gov/funding/pgm\\_summ.jsp?pims\\_id=5464](https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5464)

Satya: Thank you for clarifying as to what ATE is.

JB Groves III: We need remote satellite LiFi mesh networks like Africa and France have been deploying...

Chat Moderator Pam Silvers:  
We improved our WIFI so parking lots were very accessible

Linnea Fletcher: We also had hot spots set up in our parking lots at Austin Community College

James Dekloe: It is likely that the new bill will contain \$2 billion in funding for technical/community colleges for a new effort based on the successful TAACCCT grant program

Russ Read: Hotspots at ForsythTech too

JB Groves III: Wharton County Junior College did Blackboard professional development or all of the college's instructors under a CARES grant

James Dekloe: The funding for these programs likely will have a very short timeline for application - existing partnerships, like the ones assembled in this community, will be important to respond

Mike Lesiecki: Hot spots, drive up WiFi at Austin CC,  
<https://www.austincc.edu/coronavirus/drive-up-wifi>

Elaine Johnson: It is not just labs online but keeping cells and organisms alive when the college is shut down.

Marilyn Barger: We had 4 online summer robotics camps at FLATE and HCC this summer. It was amazing, especially an all girls camps. Support came from the school district and the Nuts and Bolts Foundation. Also we got great feedback from parents.

Linnea Fletcher: At our virtual national high school workshop --we shared info of how to have students do in home labs as the legal problems associated with this --is a barrier --so one teacher shared how their school was going to approach this and provided the document that their school developed -- also some of our commercial educational companies have stepped up and developed inexpensive equipment

Laura Chappell: Yes - we remove Q&A from our online events because people seem to be more comfortable putting questions into chat.

Casey O'Brien: The reality is that with online, hands-on lab platforms, learners just won't be able to "turn the knobs"

Serob Makhmuryan: Thank you very much for your answers!!! Hope it will work when students will be faced in actual lab environment and will be able to perform what they learn in simulation labs.

Linnea Fletcher: yes Pamela that is the major problem with at home --so that is why the document addressed this --for example, all of the reagents are reagents you can purchase in the supermarket

Gordon Snyder: I've got remotely accessible electronics equipment setup where students can access real instruments remotely and make real adjustments and take real measurements on real instruments. I just need to setup the circuits for them.

Pam Silvers: Our Civil Engineering instructor told me he re-did activities to account for at home supplies. And told students to let him know if they didn't have something

JB Groves III: Was there class discussion at each benchmark checkpoint?

Susan Williams: Gordon, can you email me more about how your remote electronics works? [Susan.Williams@scc.spokane.edu](mailto:Susan.Williams@scc.spokane.edu)

Linnea Fletcher: On the last day of our high school workshop==7 companies and nonprofits listened to what teachers need and are willing to develop materials that could be used at home or in a teacher's home to demo --I thought it was great how the community came together to meet these challenges

Gordon Snyder: hi Susan - yes I'm at [gsnyder@hcc.edu](mailto:gsnyder@hcc.edu)

Nai Wang: I think the question about liability for Culinary or any home labs should be addressed. Think about it, if a kid got a paper cut from a book, who's liable, the school, the publisher or Homeowners/renters insurance.

Anita Wright: How did most faculty transition? To remote asynchronous, or 'scheduled' synchronous meetings?

Dr. A. Khan: For labs, a hybrid approach of using online simulations with hands-on lab kits coupled via IoT could be very effective.

JB Groves III: Do you have a COVID question sheet for each student entering the lab?

Linnea Fletcher: For biotech --the programs across the nation transitioned more to synchronous than asynchronous --

Chat Moderator –

Pam Silvers: For Fall instructors or chairs were asked how to transition - I have a Real Time (Zoom Meetings) and My Time (on line asynchronous)

JB Groves III: We use Blackboard Collaborate Ultra...

James Dekloe: The idea of home microbiology labs came up in the recent American Society for Microbiology meeting. They made the point that if the students receive the microbes from the vendor, the vendor assumes liability. If the microbes come from your college, then your college assumes liability. Having said that, so many colleges are doing this that the vendors are back-ordered until the end of October

Anita Wright: Yes - and trying to get tech help from online vendors such as MyProgrammingLab was just horrendous

Satya: QUESTION: I teach math at a university. My main problem is conducting tests. How do we proctor? How to grade math tests where students have to show their work completely, as opposed to multiple choice type of questions.

Nai Wang: Here in Arizona I don't think we will be able to do Hybrid for 2020.

Gordon Snyder: I've been using ProctorU for proctored remote exams

Janis Thompson: Are there other CTE focused projects being implemented with CARES ACT?

Anita Wright: Online courses, I don't 'test' - I give problem sets and/or required posted discussion where they choose Qs to answer

JB Groves III: TESTOUT has excellent online labs with certifications.

Chat Moderator - Pam Silvers:

Inequality is a huge issue - hopefully we will have time to address. Although I think each college is working on the answers that work for them.

Linnea Fletcher: So for Austin Community College --all workforce programs requiring hands on went back into the lab July 8th but the safety plan for each program was drawn up in May and it is different for each program and depends on space and program requirements --and we willing using the same plan this fall and in the fall schedule reflects these changes ----it is

interesting how biotech programs across the nation are all doing it differently --some are doing what ACC is doing and others are just not offering courses until they can get back in the lab

JB Groves III:

[www.testout.com](http://www.testout.com)

Robin Hayes:

This Fall, MGCCC will be using the HyFlex approach where students can choose to be online or in the classroom and may change from week to week or by topic. Will be interesting.

Chat Moderator - Pam Silvers:

I think this is extremely hard for Adjunct Instructors - who might have never been involved in on line teaching

Patricia Alfing:

Robin Hayes: I'm trying to get my brain around the hyflex as that is what we are offering too. we have to record the lectures we are giving and only half of the class will be there at a time, the rest watching via live stream or recorded

Robin Datta:

@PAlfing, I found this

<https://www.niu.edu/keepsteaching/resources/hyflex-course-model.shtml>

Robin Hayes:

Patricia: My plan is more of a flipped classroom and offering students to come into the classroom for labwork or I will be available virtually if they choose to work from home. Lectures will be prerecorded.

Laura Kelley:

@Laura Chappell. Is registration required to attend the DEFCON this summer? I can't seem to find the link to register on the DEFCON website.

Satya:

QUESTION: Since one of aspects of emphasis in math is on "writing mathematics", how can I make sure my students do show complete work during tests? How to conduct such tests, proctor them, grade them? I asked this question in the previous panel discussion, but I would appreciate suggestions/ideas from these folks.

Andrew Bell:

we are not allow to take temperatures

Nai Wang:

What's the policy that is against temp scans?

Linnea Fletcher:

To finish the labs in biotech when we went online --we used synchronous --blackboard collaborate or zoom --and data for the experiments and labs that we would have run --and videos that we either made or used from ATE projects or commercial educational companies --so having students run through the data was very worthwhile

C. Lee Carlson: @Satya: I had a friend have her students make videos of themselves completing the work (for Punnett squares). They could do it on their phone and submit the file to the LMS or, because a lot of the students were already using that app, they could record a TikTok and send her the link to the video.

Linnea Fletcher: And our school checked out computers to faculty and students and provided training in how to use the Blackboard collaborate or ZOOM

Satya: @C. Lee: Thank you. But my Differential Equations class has 100 students, and I conduct three tests, three quizzes, and a final. I also teach Calculus II to almost that many students. Watching that many videos would be a nightmare. :-)

Linnea Fletcher: our enrollments in biotech are up --the companies need more people in our area but across the country it is very geographic based industry density and if they are involved in Covid work

Angel Fonseca: Our school has been using Respondus...anyone have any experience with that?

Robin Datta: QUESTION: In the previous panel, and in this one too, people are asking about using TikTok or Discord, for example. I understand that these are convenient, but what are the FERPA considerations?

Ann Blackman: Respondus is a good solution is Lockdown Browser AND Monitor are used

Jonathan Friedman: ETA-International now has online proctoring using a service called examroom.ai. We will know more about this soon, as we have a fiber optics installer course running now.

Ron Umehira: When an automotive or culinary or science instructor have his/her students do a hands-on task during an online synchronous class in their homes and there's an accident, is the college liable?

Ann Blackman: Respondus Lockdown Browser, alone, does not provide a proctored environment.

Angel Fonseca: @Ann - we are using it with the web cams and triggering flags

Anita Wright: How did they "present"?

Laura Kelley: The problem with Respondus was that we have students who are not technical enough to get it to work on their computer. Otherwise, I love using Respondus Lockdown Browser to administer the exams.

Anita Wright: I have an upcoming course that has a significant "team component" for projects, has anyone done that ?

Matthias Pleil: Question: I'm thinking about oral exams - individuals, say give them 10 questions in advance, and I ask them about one of them on a zoom session - what do you think?

Ann Blackman: Yes! Respondus Lockdown Browser with a webcam (Monitor is Respondus product)

Serob Makhmuryan: My school done that too, no tests, presentations, and critical thinking questions...

Jim Heffernan: QUESTION: Linnea, can you please share your industry PowerPoint model?

Angel Fonseca: @Anita For team component, I force using shared docs in either Google or Microsoft - where they have to login and contribute individually (and give me editing access so I can view editing history) and THEN have them present and record their session. We use BigBlueButton in Moodle and have them record their session right there. They could also use Zoom or Screencastomatic if they choose.

Laura Kelley: Even with Respondus, they are taking the exams at home, so you still don't know if they really cheated while take the exam. I ended up making my exams essay questions. This way I now they have to respond in their own words. When submit the file, it get checked with the plagiarism

Laura Kelley: plagiarism software in Canvas.

Susan Williams: Prezi is a nice alternative to Power Point but there is a small fee involved.

Linnea Fletcher: Even if I do have at home kits --if I do that--I am going to have students synchronously teach other labs --you have to keep them engaged.

Angel Fonseca: @Laura - it's not 100% no, But we do have a requirement of them showing their environment with the camera before they get started, and then use the flags to view if they look suspicious

Casey O'Brien: re: exams/assessment, the current pandemic/situation we find ourselves in provides an opportunity to rethink assessments, which are summative, occurring after learning, and often as an after-thought in instructional design

Anita Wright: ok - I will try that as they can show the ppts and each take turns talking/presenting the different parts of the presentation. Thanks

Susan Williams: QUESTION--what is this RAIN?

Linnea Fletcher: I want to put biotech equipment in the RANIN

Matthias Pleil: RAIN Link: <http://nano4me.org/remotearchive>

Bob Ehrmann: [www.nano4me.org/remotearchive](http://www.nano4me.org/remotearchive)

TAMMY QUINEY: QUESTION: With Skill-Traded Hands-on learning programs, how do you keep the integrity of the course and material with less time to teach it now? By having shorter lab times, and more online teaching than floor lab teaching.

Bob Ehrmann: The RAIN Network: Remotely Accessible Instruments for Nanotechnology (and Microtechnology)  
[www.nano4me.org/remotearchive](http://www.nano4me.org/remotearchive)

Abe Michelen: Scilab is a free version of MATLAB created by the French government. Maybe better. It is totally compatible with MATLAB. Download here: [www.scilab.org](http://www.scilab.org).

Jonathan Friedman: Ann used this KSA format with us in our second BILT meeting, which was forced online by the pandemic. Worked like a dream.

Janis Thompson: ANN-ARE YOUR FORMS AVAILABLE

Satya: @Abe: Is scilab better than Octave?

Linnea Fletcher: And if some of us can get into our labs we could have our students demo labs and equipment for other programs

Jonathan Friedman: We generated a spreadsheet of the KSAs, and then Ann integrated them into the MS Forms document.

Abe Michelen: Octave and R are also very good packages. I prefer Scilab because it is absolutely compatible with MATLAB, and it has the same IDE.

Satya: Thank you Abe. I will check out Scilab

Linnea Fletcher: And there are a lot of tools developed with ATE funding

Ann Beheler: Contact me if you want to know how to use Google Forms/Sheets for the online KSA voting and averaging. It's a bit of a process to create the documents correctly. [abeheler@collin.edu](mailto:abeheler@collin.edu)

Linnea Fletcher: IF industry can teach from their site --then they can see what our students can do --and stay in touch with our students

Linnea Fletcher: Our commercial educational partners are willing to teach for us -- synchronously --the InnovATEBIO Center could set this up for faculty and their courses

TAMMY QUINEY: One thing we have to remember is most Skilled-Trade program students, like Mechatronics, are Kinesthetic and Visual Learners. So with all the online learning, it could be hurting some students. So we have to focus there as well.

Jill Zande: I think that we need a glossary of terms - remote learning vs. distance learning vs. distance delivery vs. online learning, etc.

Russ Read: I think both students and faculty are concerned about their safety for in person events.

Anita Wright: absolutely - and their schedules have been upended too. Some having to work "extra" others lost their jobs

Pam Silvers: I think each college or state has their classification - we are using Real Time, My Time, On line, Real time with face time. . . no standard

Susan Williams: My president, Dr Kevin Brockbank, I think said it best, "We need to remember to be kind." You are absolutely right that our students are having a real hard time just now.

Matthias Pleil: "It's about students!"

Jonathan Friedman: Recruiting is a HUGE problem for us at Univ. Ana G. Mendez

Bob Ehrmann: MNT = Micro Nano Technology

Matthias Pleil: MNT-EC Micro Nano Tech Education Center,

Matthias Pleil: MNTeSIG - Micro Nano Tech Education Special Interest Group - join us at [MNTeSIG.net](https://www.mntesig.net)

Matthias Pleil: <https://www.mntesig.net/>

Marilyn Barger: National Center for Autonomous Technologies (NCAT)

Patricia Alfing: @matthias-that's why they get to choose the format for their attending or not attending...but faculty doesn't

Ann Beheler: QUESTION: We use internships for CTE courses, but there are not very many available this year. Are others seeing this?

Matthias Pleil: Jared has open door zoom session, like office hours that students can drop in

Matthias Pleil: I will try this in the fall

Jared Ashcroft: Great, now 500 people will come to my office hours :).

Marilyn Barger: We did a quick survey at the end of spring and students found communicating with instructors very stressful to the point of distraction of

their studies. They were not used to communicating with teachers as much as now required.

Matthias Pleil: I also found that doing advisement on zoom works better than in the office - one on one is great - students share paperwork etc...

Martina Bachlechner: Linnea, how big was the class size?

Nai Wang: We use two tools to help build relationships with students using the Video Games they play. Knowing what games they prefer give you a glimpse into their motivations. They all share similar games like Fortnite! Using Myers Briggs you can know what style they are and another survey is Quantic Foundry which uses video games or board games to identify motivations.

Here's my motivation results using Quantic Foundry.

<https://apps.quantificfoundry.com/profiles/gamerprofile/c9CKryYiQxyFMWXahYoExK/>

Links to the tools:

[https://gametree.me/wiki/en/personality\\_types/](https://gametree.me/wiki/en/personality_types/)

<https://apps.quantificfoundry.com/surveys/start/gamerprofile/>

Matthias Pleil: I will be embarking on student team project all online - should be interesting. about 10 teams per class - wish me luck! Any hints to make this effective?

Christine Neal: You guys are all college, but my high school juniors and seniors and I have had many of the same experiences you are all confiding about.

Mike Lesiecki: Question: what fraction of your students have simply disappeared?

Anita Wright: I always have a 3 point Introduction Required Discussion forum that all students are asked to talk about themselves a bit .... with a fun Q. like what's your favorite ice cream flavor

Angel Fonseca: @Linnea - I do this also, and then have an orientation (includes a syllabus, course schedule etc) with a quiz that has to be passed before going ON to the rest of the class. However, I still have those anomaly students who say they didn't know HOW I conducted class. sigh.....:) But I will not stop.. I agree Linnea, it's my best effort to help give them tools, they can choose to use them or choose not to.

Anita Wright: all good - we need to teach them how to learn independently - a few points for lots of work seems to be helpful

Linnea Fletcher: Ice breakers great idea

Nai Wang: I use what's your favorite food and why

Jill Zande: <https://kahoot.it/>

Angel Fonseca: I have students create intro video (less than 2 minutes) in our LMS as a post entry

Chander Arora: I brought in a front line doctor to answer the questions and fears the

Jim Heffernan: Linnea, you have hit the most important issue. Student motivation, self-direction, and taking control of their life determines their success in college and the workplace more than anything else.

Justin Tickhill: My Start here quiz focusses on me making a relationship with me.

Nai Wang: or what is your favorite video game and why?

Justin Tickhill: I cannot initiate a relationship on behalf of students

Mike Lesiecki: Did you know there is a section of ATE grants called Instrumentation Acquisition? up to 500k for curriculum development and equipment, <https://www.nsf.gov/pubs/2018/nsf18571/nsf18571.htm>

Anita Wright: Do you think it's by choice for some of them? Lots of Required Discussion with peer reviews seems to help

Justin Tickhill: I ask about how their work and family situation can affect the course

James Smith: I have students present something every week. When students speak and discuss with peers on zoom they all comment on how close they feel with their peers after the semester ends.

Mike Lesiecki: Deadline is October 1

Angelicque Tucker Blackmon: Instructors really need to bring a more sense of who they are to make the online environment work and to keep folks engaged in remote learning.

Anita Wright: They do like to post/discuss "binge movies/shows" and video games

Angel Fonseca: @ Anita! Yes, I have them include that topic in their intro video, and peers comment about each other naturally

Linnea Fletcher: exactly but some instructors have a hard time of doing this and just being themselves --

Linnea Fletcher: [linneaf@austincc.edu](mailto:linneaf@austincc.edu)

Matthias Pleil: <https://www.mntesiq.net/>

Bob Ehrmann: [jmashcroft@pasadena.edu](mailto:jmashcroft@pasadena.edu)

Linnea Fletcher: So as the Director of InnovATEBIO --you can find us at the Facebook page or the website or [linneaf@austincc.edu](mailto:linneaf@austincc.edu)

Mike Quissaunee: [mquissaunee@brookdalecc.edu](mailto:mquissaunee@brookdalecc.edu)

Mike Quissaunee: Some interactive resources we've built:

Mike Quissaunee: Multiple cybersecurity and electronics interactives:  
<https://mirrorlearning.org/emate2/web/ematecybersec.html>  
and  
[https://mirrorlearning.org/emate2/web/ematecybersec\\_networking.html](https://mirrorlearning.org/emate2/web/ematecybersec_networking.html)

Work in progress:  
<https://mirrorlearning.org/emate2/web/emate2.html>  
[https://mirrorlearning.org/emate2/web/emate2\\_preview2.html](https://mirrorlearning.org/emate2/web/emate2_preview2.html)

Chemistry: <https://www.brookdalecc.edu/stem-institute/chemistry/interactives/>

Environmental Science: <https://www.brookdalecc.edu/stem-institute/environmental-science/interactives/>

Physics: <https://www.brookdalecc.edu/stem-institute/physics/interactives/>

Mike Lesiecki: Another resource, the podcast Preparing Technicians for the Future of Work, <https://www.preparingtechnicians.org/podcasts/>

Doug Laven: Doug Laven: [doug.laven@southcentral.edu](mailto:doug.laven@southcentral.edu)

Russ Read: [www.ncbionetwork.org](http://www.ncbionetwork.org) for online tools

Poornima Rao: [innovatebio.org](http://innovatebio.org)

Ann Beheler: [abeheler@collin.edu](mailto:abeheler@collin.edu) - <http://connectedtech.org>

Ann Beheler: Come join us!

Kristin Bennes: Thanks for helping us Leverage the Virus!

Elaine Craft: Keep in mind that if you need funding to bring your innovations and adaptations to fruition or advance them to a new level for technician education, apply for NSF ATE funding. The ATE-funded Mentor-Connect project ([www.Mentor-Connect.org](http://www.Mentor-Connect.org)) provides no-cost mentoring and technical assistance to help you develop and submit a competitive proposal to the NSF ATE Program. The application for assistance for submission in 2021 is available online.

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Ann Beheler: Thanks everyone! Richard Bliss will also share how to track your students on LinkedIn.