Soaring to New Heights

CTE Works! Summit 2017
Crowne Plaza AiRE, Bloomington, MN
November 2, 2017

Captain Barrington Irving
Meredith Crosby
Chef Paul Lynch
Kavi Turnbull
Welcome to the Future of CTE

We are honored and excited to have you participate in one of the largest gathering of CTE, career and college readiness, and workforce professionals in the Midwest.

CTE Works! is about sharing promising practices among a network of practitioners; sharing what works, why it works and for whom it works as an important strategy to support education through engagement in the workforce and continued transitions throughout life. Much of this work involves career pathways as an important element of secondary and postsecondary educational systems that allow us to equip students with the skills, knowledge, creativity and flexibility they need for their future well-being as well as that of our communities, state and nation. These career pathways and alignment of our secondary and postsecondary education and training for students are a critical goal of STEM education and the broader career and college ready agenda. Several of today’s presenters will highlight their local level initiatives in these areas.

Whether we work in high schools, colleges, Adult Basic Education centers, correctional facilities, employment services, or workforce agencies, a priority for all of us is to provide learning environments that offer hope and opportunities for students of all ages to experience career guidance, learn relevant information and skills, and successfully make and achieve their goals. We work toward this priority by implementing career pathways systems and strategies at local, state and national levels that align with Workforce Investment and Opportunity Act (WIOA), Every Student Success Act (ESSA), and Carl D. Perkins legislation.

During CTE Works! you will experience panels, discussions and hands-on learning from your national and regional colleagues. To add to the Steve Jobs quote “We have always been shameless about stealing great ideas”—You are invited to steal shamelessly; share seamlessly! See and hear what your colleagues are doing and then share with your own programs, students, and peers.

CTE Works! also provides us with the opportunity to thank you for all your good work! What you do really does change lives.

Thank you!

Jeralyn Jargo  
State Director of Career and Technical Education

Michelle Kamenov  
Career Development & CTE Education Supervisor

The contents of this program were developed under the Carl D. Perkins Career and Technical Education federal grant from the U.S. Department of Education. However, the contents do not necessarily represent the policy of the U.S. Department of Education.
WiFi Password
boeing777

Social Media #CTESummit2017
Join the conversation online and share your conference experience with others by using our hashtag #CTESummit2017 in your tweets. You can also tag us @CTEMinnesota.

Conference Evaluation
Your feedback is important to us. Take a moment to tell us what you think—what worked and didn’t work, areas for improvement, and speakers and workshops you enjoyed.

https://tinyurl.com/CTEWorks-2017

Need CEUs?
Continuing Education Credits (CEUs) for administrators and teachers/faculty can be picked up at the registration desk.

Meditation Room
The Earhart Room is made available to conference participants who need access to a calm and peaceful space. Talking and using mobile devices are discouraged while using this room.

Mothers’ Room
This room is intended to support the wellness and parenting needs of conference participants. Privacy is of utmost importance to the users of this room. Go to the registration desk for access to this room.

Where to get the presentations
Looking for presentation handouts or slides? We’ve asked presenters to upload their materials to the conference website.
- Go to www.cteworksminnesota.org/workshops
- Find the workshop name and click on it
- Scroll down the page and look for “Presenters’ Materials”

Presenters are responsible for uploading their presentations and handouts to their workshop webpages. Some presenters may be uploading their presentations after the conference so be sure to check the website for updates.

Photo and Video Notice
The CTE Works! Summit is held in a public space, therefore we do not prohibit participants, exhibitors, or sponsors from photographing, video or audio-taping some Summit activities. We reserve the right to use images taken at the Summit with your photograph and/or likeness on social media and/or in future Summit marketing materials. Summit sponsors are NOT responsible for individual attendee’s use of your image or likeness. If you plan on taking photos, videos, or posting to social media, please be respectful towards those participants who do not wish to have their photo taken.

Key to Identifying Strands for Concurrent Workshops

= Featured Presentation
= Legislation, Policy & Accountability
= Teaching & Learning Strategies
= Career & College Readiness
= Partnerships
= Employer Engagement & Workforce Development
## Summit Schedule At-a-glance

### 7:15-3:45pm
- **Ballroom Lobby**: Registration, Exhibitors and Affiliate Booths Open
- **Park ‘N Fly Lot**: Mobile Labs Open

### 8:15-9:30am
- **AiRE Ballroom**: Opening Remarks and Keynote Captain Barrington Irving  
  **Jeralyn Jargo**, *Minnesota State* & **Michelle Kamenov**, *Minnesota Department of Education*

<table>
<thead>
<tr>
<th>Time &amp; Room</th>
<th>Apollo Terrace</th>
<th>Lindberg</th>
<th>Humphrey</th>
<th>Runway 1/2</th>
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</table>
| 8:45-9:45am | **Inspiring Students Through STEM**  
  Captain Barrington Irving | Employer Engagement: A Win-Win strategy | Start or Improve Your Health Science CTE | Licensure via Portfolio: The Good, the Bad, & the Ugly |
| 9:45-10:45am | | Using Real-Time Data on Employer Demand to Promote and Develop CTE Career Pathways | New Ways to Integrate Human Development into CTE Pathways | Allocation and Alignment of Perkins Funds: A Multi-State Study |

### 10:00-12:00pm
- **Block B**: Growing Our Own: Future of CTE Leadership  
  Gina Riggs  
  Growing Our Own: Future of CTE Leadership  
  Gina Riggs

### 12:00-12:30pm
- **AiRE Ballroom**: Join us for lunch

### 12:30-1:30pm
- **AiRE Ballroom**: **SnapShot Speakers Employer Panel**  
  Meredith Crosby, Paul Lynch, and Kavi Turnbull

### 1:45-2:45pm
- **Block C**: The Value and Promise of Career Technical Education  
  Katie Fitzgerald  
  The Value and Promise of Career Technical Education  
  Katie Fitzgerald

### 3:00-4:00pm
- **Block D**: Welcome to New CTE Teachers!  
  Apprenticeship: Building the 21st Century Workforce  
  What’s Trending in CTE, Financial Literacy and Community Connections!  
  Changing Perceptions, Shaping Reality: Career Pathways for ALL Students

### 4:00-6:00pm
- **Post-Conference**: Teacher Cadet Meeting  
  Teacher Cadet Meeting  
  Teacher Cadet Meeting

### 4:00-6:00pm
- **Social Hour and Networking at the Aircraft Grill**  
  (This activity is on your own)

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= Featured Presentations are national speakers.
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<tr>
<th>Wilbur</th>
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<tr>
<td>Making CTE Available to All Students Through Design Thinking Activities</td>
<td>Successful Transitions for Homeless and Highly Mobile Students</td>
<td>Food Defense and Protection in Action</td>
<td>What's Possible When We Get Out Of The Way</td>
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<td>Enhancing Employment Outcomes for Every Young Person in Minnesota</td>
<td>Should We Award Physics Credit in PLTW Courses?</td>
<td>Teaching Tools for Manufacturing in Minnesota</td>
<td>Using Mixed Reality/Simulations to Inspire Health and Mechanical Careers</td>
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Captain Barrington Irving
Inspiring Students to Touch the Sky

@CaptainIrving

How can we fuse the passion to explore, the skill to fly around the world, and the ability to make science, technology, engineering and math real and relevant? Better yet, how can we help teachers introduce STEM+ without being a subject matter expert in these fields? Answering these questions, led Barrington to investigate real world STEM problems across the globe that took him to six continents, where he carried out 30 powerful ground, air, and sea expeditions exploring real-life applications of STEM+. The Flying Classroom is a K-8 STEM+ digital curriculum that challenges students to design innovative solutions to the problems he investigates.

Before founding the Flying Classroom, Barrington created a nonprofit, Experience Aviation, which offers hands-on, STEM-based programs and career guidance to middle and high school students in Florida, Texas, and Georgia.

In 2007, at age 23, Captain Barrington Irving became the youngest pilot to fly solo around the world in a single-engine airplane. On his 97-day journey, he flew 30,000 miles in a single-engine plane called “Inspiration.” He made the trip to show other youth that if he could achieve his dream, they could too.

Born in Kingston, Jamaica and brought up in inner-city Miami, Barrington saw a football scholarship as his only route to college until, inspired by a Jamaican airline pilot who became his mentor, he decided to pursue a career in aviation. In 2003, Barrington founded the nonprofit - Experience Aviation, and set up the Experience Aviation Learning Center that continues to offer STEM-based programs and career guidance to middle and high school students in the Miami area.

Now recognized as a pioneer in education, he is preparing to revolutionize online learning by piloting the world’s first Flying Classroom. On this flight, he will combine air, land, and sea expeditions with a digital curriculum to engage millions of children throughout the world.

The Flying Classroom
www.facebook.com/yourflyingclassroom
www.instagram.com/barringtonirving
www.instagram.com/flyingclassroom/
SnapShot Speakers: 12:30 p.m. - 1:30 p.m.

Meredith Crosby  
Inspire Action! How Confidence, Communications and Community Can Change The World!

@MeredithMCrosby

There are no African American women leading Fortune 500 companies. Meredith Moore Crosby uses her journey as a millennial executive at America's biggest companies to highlight the confidence, communications and community needed to be successful. Hear best practices and leadership lessons learned at McDonald’s, 3M and Comcast. As President of Leverette Weekes public relations agency and a member of Forbes’ Coaches Council, Moore Crosby shares insights for attracting and retaining diverse talent in tech and business.

Meredith Moore Crosby is an award-winning global diversity professional executive coach and Communicator. Recently appointed President for Leverette, Weekes & Co., Meredith focuses on providing corporate strategy to organizations and business leaders. Her ability to strengthen an organizations diversity presence landed her company a place on the newly created LYFT Inclusion and Diversity Team; Code Switch, a two-day civic hackathon; and the Forbes Coaches Council, an invitation-only organization for successful business and career coaches.

Chef Paul Lynch  
A Chef’s Craft

Many students dream of becoming the next Anthony Bourdain, Gordan Ramsey, or Rachel Ray. The fame and glory is invigorating indeed. But the truth is, being an executive chef demands long hours of physical work, creative thinking, leadership, and lots of problem-solving. Underneath it all is a firm understanding of food science and food safety. A great Chef hones their craft and I want to share mine with you.

Chef Paul Lynch has more than 40 years of experience in the hotel, restaurant and hospitality industry. He is the Executive Chef and Food & Beverage Director at Hyatt Regency Bloomington Central Station. Paul worked at Westin Hotels and Resorts in Oklahoma and at Four Seasons Hotels and Resorts in Hawaii, Texas and London, England. He trained at the New England Culinary Institute and serves as judge, mentor and field trip host for Minnesota’s ProStart program. Chef Paul has received numerous awards including Restaurateur of the Year, Minneapolis Saint Paul Magazine.
Kavi Turnbull
The Importance of an Entrepreneurial Mindset

Learn about the power of cultivating an entrepreneurial mindset and the amazing opportunities it can bring to your professional career.

Kavi Turnbull is a serial entrepreneur and Business Faculty member at Century College. Kavi is very active in student recruitment and mentoring in Century College's Muski Tank initiative. He is a native Minnesotan and holds a B.S.B. from the University of Minnesota's Carlson School of Management and an M.B.A. from the University of Wisconsin Madison. He has been a founding member/owner of five companies. He is currently the owner of Golden Acres, a company that manufacturers raw dog food using organic and free-range ingredients.
Captain Barrington Irving

Inspiring Students Through STEM
Apollo Terrace | 8:45 - 9:45 a.m.

How do you sell students on STEM? How do you leverage the first 15 seconds in the classroom? Students care about the destination, not the journey. In this session you will learn ways to make STEM learning more engaging.

Audience: Adult Basic Education; College/University; Secondary School or District

Gina Riggs

Growing Our Own: Future of CTE Leadership
Apollo Terrace | 11:00 - 12:00 p.m.

As ACTE president, Ms. Riggs will interact with attendees about how she was recruited into CTE leadership roles. We will discuss how and why recruiting CTE leadership within your profession, school, state association and the national level is important. Plus, how do we go about “growing our own?”

Audience: College/University; Secondary School or District

Katie Fitzgerald

Growing Our Own: Future of CTE Leadership
Apollo Terrace | 1:45 - 2:45 p.m.

While CTE is enjoying a resurgence in interest, there are still major barriers to communicating to students and parents that CTE is the right choice for them. Advance CTE, with support from the Siemens Foundation, conducted research to determine the best messages to use with students and parents to encourage them to enroll in CTE Programs of Study. Hear about the study’s findings, and how you can use this research to increase enrollment in your community.

Audience: College/University; Secondary School or District; Workforce Development

Concurrent Workshop Strands

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Captain Barrington Irving, *The Flying Classroom*  
How do you sell students on STEM? How do you leverage the first 15 seconds in the classroom? Students care about the destination, not the journey. In this session you will learn ways to make STEM learning more engaging.  
**Audience:** Adult Basic Education; College/University; Secondary School or District |
| **Lindberg**         | **Employer Engagement: A Win-Win Strategy**  
Kim Mueller, *Mankato Area Public Schools*  
It is no secret that strong advisory committees help to shape solid CTE programs. In this session, we will review key strategies and helpful tips to foster strong partnerships in your community. Mankato Public Schools will share how they are growing partnerships by capitalizing on the data in their community.  
**Audience:** Business/Industry; Secondary School or District; Workforce Development |
| **Humphrey**         | **Start or Improve Your Health Science CTE**  
Anthony Schaffhauser, *HealthForce Minnesota*; Shelli Sowles, *Minnesota Department of Education*  
This session’s interactive and engaging health science course resources make it worthwhile for educators to attend. These include videos, simulations, learning activities, and quizzes. In addition, we demo a web resource for developing or improving an entire health science technology education program (HSTEP). This website demystifies the best practices and requirements for a Minnesota Department of Education approved health science CTE program. We introduce action steps and checklists to start or improve an HSTEP.  
**Audience:** Advising/Career Development; Secondary School or District |
| **Runway 1/2**       | **Licensure via Portfolio: The Good, the Bad, & the Ugly**  
Troy Haugen, *Lakes Country Service Cooperative*; Kathy Kittel, *Saint Paul Public Schools*  
Learn about the current state of licensure via portfolio, the impact of the 2017 legislative session on portfolio, and how one school district is supporting their teachers to obtain CTE licenses via portfolio.  
**Audience:** Secondary School or District |
| Wilbur | **Making CTE Available to All Students Through Design Thinking Activities**  
David Stricker, *St. Catherine University*  
Infusing realistic and effective design problems into contemporary CTE curriculum is a challenge. To make design ways of thinking accessible and meaningful to students, leveraging the details inherent in the subtle complexities of common problems can be surprisingly engaging. This workshop will explore how to carefully unpack simple scenarios in ways that provide insights as to how educators can use everyday scenarios to make significant impacts on students’ understanding of design thinking.  
**Audience:** Advising/Career Development; College/University; Secondary School or District |
| Orville | **Successful Transitions for Homeless and Highly Mobile Students**  
Eric Grumdahl, *Minnesota Department of Education and Minnesota Office to Prevent and End Homelessness*  
Over 9,500 students enrolled in Minnesota’s public and charter schools on October 1, 2016 were experiencing homelessness. More than 10 percent of them are in 12th grade, preparing for their critical transition to adulthood. Come to this session to learn about resources, options, and techniques for supporting successful transitions for these young people, and to help us shape Minnesota’s response to student homelessness going forward.  
**Audience:** Adult Basic Education; Community Organization; Secondary School or District |
| Runway 3 | **Food Defense and Protection in Action**  
Allison Zaccardi, *St Paul Public Schools*; Stephanie Love, *Food Protection and Defense Institute*  
Through a collaborative project between Saint Paul Public Schools and the Food Protection and Defense Institute, students learned about the importance of food protection in a hands-on, real world experience. Students learned about various aspects of food defense—terrorism, sabotage, and economically motivated adulteration—as well as associated careers. Then, students observed a simulated exercise where first responders (fire, EMS), law enforcement (police, FBI), and local public health officials responded to a “what if” scenario.  
**Audience:** Community Organization; Secondary School or District; Workforce Development |
| Runway 4 | **What’s Possible When We Get Out of the Way**  
Effective partnerships require playing to each other’s strengths. Greater Twin Cities United Way and Reve Academy have partnered to amplify excellent students and teachers to reimagine the classroom experience. We will share how bringing Agile methodology into the classrooms allows students to take charge of their own learning and outcomes. By stepping out of the “sage on the stage” methodology to the “guide on the side” students show that they have the talent to excel.  
**Audience:** Adult Basic Education; College/University; Secondary School or District |
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<td>As ACTE president, Ms. Riggs will interact with attendees about how she was recruited into CTE leadership roles. We will discuss how and why recruiting CTE leadership within your profession, school, state association and the national level is important. Plus, how do we go about “growing our own?”</td>
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<td><strong>Using Real-Time Employer Demand Data to Promote and Develop CTE Career Pathways</strong></td>
<td>Erin Olson, <em>RealTime Talent</em></td>
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<td>Attendees will learn about the skills and certifications in highest demand among Minnesota employers in Business, Finance, and Agriculture Career Clusters, and see examples of how this information can be used to support student career planning, curriculum planning, and program development. Attendees will hear about data sources they can use to build a better workforce by aligning the skills and talents of students with real opportunities out there today and waiting to be filled.</td>
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<td><strong>Humphrey</strong></td>
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<td><strong>New Ways to Integrate Human Development into CTE Pathways</strong></td>
<td>Denise Bodart and Merri Johnson, <em>Realityworks, Inc.</em></td>
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<td>Review programmatic ideas and experiential learning tools that can boost student learning in human growth and development across the lifespan. Learn how to tie these activities to a variety of related CTE career pathways in your courses so they are ready for today’s innovative and ever-changing workplace.</td>
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<td><strong>Runway 1/2</strong></td>
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<td><strong>Allocation and Alignment of Perkins Funds: A Multi-State Study</strong></td>
<td>Dr. Matt Simoneau, <em>University of Wisconsin-Stout</em></td>
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<td>This interactive session will detail the findings from a study that examined the allocation habits of two-year postsecondary institutions. Topics include primary area of use of Perkins funds, alignment of expenditures to the purpose and intent of Perkins, alignment to strategic planning, as well successes and barriers with the Act.</td>
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### Wilbur

**SciGirls Strategies: Engaging High School Girls in CTE and STEM**  
Leah Defenbaugh and Alex Dexheimer, *Twin Cities PBS*

SciGirls Strategies is a National Science Foundation-funded initiative aimed at encouraging and retaining girls in CTE courses and careers. In this session we will discuss strategies for gender equitable teaching, roles teachers and counselors can play in encouraging and retaining girls in CTE and STEM. Educators will then test out their new knowledge by engineering a parachute.

**Audience:** Advising/Career Development; Secondary School or District; Workforce Development

### Orville

**Voices from the Field: Career-focused Contextualized Basic Skills Instruction**  
Heather Turngren and Stephanie Sommers, *Minneapolis Adult Education*

In this presentation, Adult Basic Education teachers will share their experiences with career-focused basic skills curriculum instruction (CCI). Come and learn what is meant by “contextualization” and how this approach to lesson planning can help you teach basic skills while also promoting career awareness and helping learners prepare for a specific career path. Participants will share the CCI-process and lessons that have been created while participating in the CCI-Cohort PD initiative.

**Audience:** Adult Basic Education; Community Organization

### Runway 3

**Bringing the Classrooms to the Students: MState’s Mobile Training Labs**  
Monty Johnson, *Minnesota State Community and Technical College*

A different approach to CTE? A fleet of MState mobile training labs bring the classroom to the students. Participants will become familiar with MState’s rationale, pitfalls, and successes of the mobile lab concept. After session, MState will allow participants tour one of our four trailers.

**Audience:** Advising/Career Development; Adult Basic Education; Community Organization

### Runway 4

**Easy Design Strategies for Engaging, Student-Centered & Organized Courses**  
Elizabeth McMahon and Robin O’Callaghan, *Minnesota Online Quality Initiative*

Regardless of your delivery mode, this session is for you! We’ll showcase examples, strategies and best practices to help create accessible, student-centered courses that are engaging and organized. Based in part on Quality Matters standards, this session is meant to provide practical tips you can implement today. Templates, assignment directions, and grading rubrics will be provided.

**Audience:** Business/Industry; College/University; Secondary School or District

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= Partnerships  
= Employer Engagement & Workforce Development
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<td><strong>Apollo Terrace</strong></td>
<td><strong>The Value and Promise of Career Technical Education</strong>&lt;br&gt;Katie Fitzgerald, <em>Advance CTE</em>&lt;br&gt;While CTE is enjoying a resurgence in interest, there are still major barriers to communicating to students and parents that CTE is the right choice for them. Advance CTE, with support from the Siemens Foundation, conducted research to determine the best messages to use with students and parents to encourage them to enroll in CTE Programs of Study. Hear about the study’s findings, and how you can use this research to increase enrollment in your community.&lt;br&gt;&lt;br&gt;&lt;strong&gt;Audience:&lt;/strong&gt; College/University; Secondary School or District; Workforce Development</td>
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<td><strong>Lindberg</strong></td>
<td><strong>Come Along for a SLEDS Ride</strong>&lt;br&gt;Megan Peterson, <em>Lakes Country Service Cooperative</em>; Lisa Gregoire, <em>Southwest West Central Service Cooperative</em>&lt;br&gt;What indicators predict your high school graduates’ success? How many of your high school students are required to take developmental education courses once they enroll in college? The Statewide Longitudinal Education Data System (SLEDS) is a data source that matches student data from pre-kindergarten through postsecondary education and into the workforce. We will dig into SLEDS to see how you might leverage this tool. <em>Participants should bring laptop/iPad to access data in this interactive session.</em>&lt;br&gt;&lt;br&gt;&lt;strong&gt;Audience:&lt;/strong&gt; Business/Industry; College/University; Secondary School or District</td>
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<td><strong>Humphrey</strong></td>
<td><strong>Connecting with the Industry: The Power of Mentorships</strong>&lt;br&gt;Monique Sabby, <em>ProStart- Hospitality MN Education Foundation</em>; Tom Kavanaugh, <em>Kavanaugh Sylvan Lake Resorts</em>&lt;br&gt;The Elk River Culinary program has earned first place 8 times at The ProStart State Invitational in the past 11 years, and placed among the top 10 culinary teams in the nation. Over the years team members and teachers change, but one key factor remains the same: The powerful relationship between the students and industry mentors. This session will highlight the importance of industry connections and how mentors can educate, inspire and empower our students.&lt;br&gt;&lt;br&gt;&lt;strong&gt;Audience:&lt;/strong&gt; Advising/Career Development; Business/Industry; Secondary School or District</td>
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<td><strong>Teaching, Assessing and Reporting Career and Employability Competencies</strong>&lt;br&gt;Sean Beggin, <em>Anoka-Hennepin Secondary Technical Education Program</em>; Crystal Scott and Kathy Vaughn, <em>STEP</em>&lt;br&gt;Many employers today feel that students are not prepared for job and workplace success. Skills such as integrity, dependability, teamwork, communication, critical thinking, and problem solving are missing skills necessary for workplace readiness. At the end of this session, participants will understand how we developed our system for teaching, assessing, and reporting career and employability competencies. We will tell our story, include examples, and offer suggestions of how to implement this concept in their programs.&lt;br&gt;&lt;br&gt;&lt;strong&gt;Audience:&lt;/strong&gt; Advising/Career Development; Secondary School or District; Workforce Development</td>
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### Wilbur

**The New Youth Skills Training Program & Creating Partnerships with Employers**  
Amy Walstien, *Minnesota Precision Manufacturing Association*; Luann Bartley, *Minnesota Department of Labor and Industry*

The 2017 Legislature passed a law to enable more high school students to participate in skills-based training at employer sites. Advocacy led by the Minnesota Precision Manufacturing Association resulted in the new Youth Skills Training Program, which will allow “student learners” (16 and older) to participate in internship and apprenticeship programs where they can receive on-the-job training directly from employers. Learn about the program and how to work with employers ready to offer experiential training.

**Audience:** Business/Industry; Secondary School or District; Workforce Development

### Orville

**Supporting Underserved Populations in CTSOs**  
Emily Saed, *Minnesota Foundation for Student Organizations*

This session provides an overview on how Career and Technical Student Organizations (CTSOs) can play a supportive role in addressing students in poverty. Participants will learn about poverty awareness training for CTSO Advisors and the impact it can have in the classroom. Overcoming barriers to meaningful participation in a CTSO at a local/chapter level will also be reviewed.

**Audience:** Advising/Career Development; College/University; Secondary School or District

### Runway 3

**IT Discovery Network - Tech IT Out ... Minnesota!**  

Whether you get IT or don’t, the IT Discovery Network can help. The ‘IT Network’ offers in-school, and in-community, opportunities for students and teachers to experience technology education that pave the path to high demand, fulfilling careers. What do Minnesota Computers for Schools, BDPA, High Tech Kids, Code Savvy, Genesys Works, Mouse, Microsoft, Minnesota High Tech Association, Target, STEM Fuse, and the IT Center have in common? They’re collaborating to support your classroom. Discover the ‘IT Network’!

**Audience:** Advising/Career Development; Community Organization; Secondary School or District

### Runway 4

**Classroom Team Building Activities That Teach Employability Skills**  

Interactive session based on activities that can easily be incorporated into your classroom. Focus will be on employability skills and teambuilding activities that will help you get to know your students, and help students get to know each other and work together.

**Audience:** Secondary School or District

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**= Partnerships  **  
**= Employer Engagement & Workforce Development**
### Apollo Terrace

**Welcome to New CTE Teachers!**

A team of Minnesota CTE teachers, faculty, & state leadership have initiated a statewide professional development program for new or recently new career and technical education (CTE) teachers. Modeled after the ACTE Leadership Training Program, this initiative focuses on “hot” topics for new CTE teachers including teaching resources, instructional strategies for the classroom and lab, and time management. Meet other new teachers and be ready to ask questions!

**Audience:** College/University; Secondary School or District

### Lindberg

**Apprenticeship: Building the 21st Century Workforce**
Heather McGannon, *Minnesota Department of Labor and Industry*; John Aiken, *Minnesota Department of Labor and Industry*

Apprenticeship is an industry-based, employer-driven, earn-while-you-learn training program where employers invest in employees by building training infrastructure based on occupational competencies and developing career pathways while providing opportunities to increase their skills, earning potential and competitive edge. Learn about the various forms of apprenticeship including registered, customized, and youth. Discover the employer support services available through the Minnesota PIPELINE Program. Receive information about available funding opportunities to support developing the next generation of skilled workers.

**Audience:** College/University; Corrections/Ex-Offender Transitions; Secondary School or District

### Humphrey

**Whats Trending in CTE, Financial Literacy and Community Connections!**
Lori Brumbaugh, *Champlin Park High School*; Larissa Oliphant, *Wells Fargo*

This session outlines fantastic partnership opportunities between middle school and high school programs to build awareness and knowledge in teaching financial literacy. Learn how to connect with local financial institutions to utilize speakers, integrate complimentary resources/curriculum and apply for grants that enrich the classroom experience. In addition, learn how to develop partnerships that further build loyal CTE Advisory Committee members.

**Audience:** Business/Industry; Secondary School or District

### Runway 1/2

**Changing Perceptions, Shaping Reality: Career Pathways for ALL Students**
Kathy Funston, Dan Luth, and Dave Helke; *Burnsville-Eagan-Savage Public School District 191*

Schools need to create college and career pathways, but what does this mean? How do schools reimagine flexible, scaffolded programs that lead to college credit and or industry credentials, while ensuring buy-in from staff and community? Learn how Burnsville (MN) Public Schools (enr. 9,265) redesigned secondary schools by redefining student performance outcomes through tangible strategies for planning, implementing, communicating and evaluating whole school pathways. All Burnsville students learn with purpose, leading to success.

**Audience:** Advising/Career Development; Secondary School or District; Workforce Development
| Runway 3 | Teaching Tools for Manufacturing in Minnesota  
Mike Lehn, Automotive Education Support LLC; Luann Bartley, Minnesota Precision Manufacturing Association; Sue Selland, Centers of Excellence in Manufacturing & Applied Engineering - 360; Carrie Hanson, Alexandria Technical and Community College; James Mecklenburg, Minnesota Center for Engineering and Manufacturing Excellence  
You will learn about new program and teaching ideas for today’s manufacturing programs in Minnesota. Representatives from Minnesota Precision Manufacturing, Centers of Excellence in Manufacturing & Engineering, Alexandria Technical & Community College, and state leaders will review programmatic ideas that can boost student learning in your courses so they are ready for today’s innovative and ever-changing workplace from industry-recognized certifications to internships to train-the-trainer workshops to actual lesson tools.  
**Audience:** College/University; Corrections/Ex-Offender Transitions; Secondary School or District; Workforce Development |
| Runway 4 | Using Mixed Reality/Simulations to Inspire Health and Mechanical Careers  
Pat Salstrand, zSpace  
From troubleshooting circuitry to dissecting human hearts, learn how students are inspired by mixed reality applications to join CTE/Health careers through immersive zSpace Learning Labs! Combining elements of both virtual and augmented reality, zSpace creates mixed reality computing experiences that are interactive and lifelike. Already being used in over 400 school districts, medical schools, and universities today, zSpace offers students the opportunity to achieve industry-recognized certifications, work-based learning experiences, and articulated college credits.  
**Audience:** Adult Basic Education; Secondary School or District; College/University |

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**Wilbur**

**Enhancing Employment Outcomes for Every Young Person in Minnesota**  
Sareen Dunleavy Keenan and James Collins, Greater Twin Cities United Way  
We will dig into the not-so-glamorous world of job postings and the systemic barriers that exclude youth from the workforce. How can we use data to clarify job qualifications? What can create alignment between CTE programs and workforce entry? How do we move from seeking high quality experiences to seeking specific skills? Together, we will review job postings to identify problematic components and make changes. Participants will leave able to issue spot and correct.  
**Audience:** Business/Industry; College/University; Secondary School or District

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**Orville**

**Should We Award Physics Credit in PLTW Courses?**  
Scott Arcand, Anoka-Hennepin Schools  
Participants of this session will explore a casual-comparative study that was completed to determine if students being taught the Minnesota Science Physics Standards via contextual learning methods in PLTW Principles of Engineering taught by a CTE teacher, achieve at the same rate as students in a physics course taught by a science teacher. Students who successfully pass the PLTW Principles of Engineering course earned one-half credit in physics and one-half elective credit.  
**Audience:** Secondary School or District; Workforce Development
zSpace Virtual Reality Learning Experience

zSpace delivers the ultimate learning experiences on an AR/VR all-in-one computer to inspire curiosity through mixed reality computing experiences that are immersive, interactive, and lifelike.

The Minnesota State Centers of Excellence Mobile Labs

Come out to the parking lot and visit the Centers of Excellence Trailers. Each trailer features hands-on educational activities related to the Center’s mission. You can try items in the trailer and get more information about how you can bring these innovative education trailers to your school or event. Representatives from the respective Centers will be on hand to share the features of their trailer with you. Don’t miss this opportunity to see the Centers of Excellence Trailers!

Agriculture Center of Excellence, South

Visit the Agriculture Safety Trailer! The trailer is available for business, organizations, farms, and individuals to bring an ag safety curriculum or ag day as a training for their students or employees.

AgCentric Center of Agriculture Excellence, North

The trailer showcases new Agriculture technology related to the Agriculture, Food and Natural Resources (AFNR) Career Pathways. The trailer equipment is an opportunity for students to see, touch and use agriculture technology first hand at their school, in a camp setting or in multiple other ways. To request the trailer for your event please contact Judy Barka at jbarka@clcmn.edu or at 320-221-0219.

Energy Center of Excellence

The Energy trailer is equipped with a complete 8 panel solar collector, power inverter, and storage battery system. Also included are classroom kits and curriculum on solar energy, wind energy, hydro energy and solar site assessment. A true classroom on wheels for those wanting to bring energy education to their schools.
In the Park ‘N Fly Lot

Minnesota State Community & Technical College
MState’s Precision Measurement self-contained lab is used to provide various hands on learning experiences such as a CNC lathe and mill, computer stations, and a full array of mechatronic trainers.

Transportation Center of Excellence
The Transportation Careers Exploration Trailer is filled with hands-on activities and small projects that showcase the high technologies used in transportation related careers. The trailer is designed to have students both inside and outside participating. The trailer can be quickly deployed across the state and will be staffed with volunteers from local employers, local faculty/staff, and TCOE staff to run activities. Those interested in the trailer coming to their site should contact the TCOE staff.

Minneapolis State IT Center of Excellence

Formerly known as Advance IT Minnesota

The Minnesota State IT Center of Excellence engages employers, educators, and learners to develop a more robust IT Workforce in Minnesota. The IT Center collaborates with the workforce development system, IT employers, higher education faculty, K-12 schools, and a myriad of high quality technology education providers, to offer high school and adult students relevant experiential learning and career development opportunities. The IT Center partnerships are designed to ensure Minnesota’s IT professionals are the best talent to hire in the nation.

Visit http://advanceitmn.org/it-discovery-network/ to discover K-12 technology education resources of value to teachers, parents and students.
Teacher Cadet Meeting
Apollo Terrace

Participants will receive information and an update on the new 11th edition curriculum for those who were training in 2016 as well as information on the next training meeting scheduled for June 27-29th, 2018 at MDE, credential update to teach course for concurrent credit, legislation updates regarding “grow your own” and grants that were made available this year to address the teacher shortage and for higher education to work on offering “Intro to Education” transcripted course, and any other questions you may have.

Audience:
- Teacher Cadet Leadership group members
- Teacher Cadets
- Newly trained teachers
- Anyone interested in starting a program in your school to address the teacher shortage

MAFCS Executive Board Meeting
Runway 1/2

All FACS teachers who want to avoid the traffic and learn more about our professional organization, members of the board, and our mission are highly encouraged to attend and participate in the MAFCS Executive Board Meeting.

Post-Conference Social Hour and Networking
Aircraft Grill

Find some conference participants, grab a chair, and network in the hotel lounge.

HealthForce Minnesota
Transforming education. Advancing practice.
www.healthforceminnesota.org
Association for Career and Technical Education (ACTE)
acteonline.org

Advance CTE
careertech.org

AgCentric North and AgCentric Couth
agcentric.org

EverFi
everfi.com

Leverette, Weekes & Co., Inc.
leveretteweekes.com

McGraw-Hill Education
mheducation.com

Minitex
minitex.umn.edu

Minneapolis United States Army Recruiting Command
usarec.army.mil

HealthForce Minnesota
healthforceminnesota.org

Minnesota State Center for Engineering Excellence
mnceme.mnsu.edu

Minnesota State Centers of Excellence
minnstate.edu/coe

Minnesota State Community & Technical College
www.minnesota.edu

Minnesota State Energy Center of Excellence
energycareersminnesota.com
Exhibitors & Affiliates | 7:15 - 3:45 p.m.

Exhibitors

Minneapolis State IT Center of Excellence
advanceitmn.org

Minnesota State Advanced Manufacturing Center of Excellence
360mn.org

Minnesota State Transportation Center of Excellence
minntran.org

North Central States Regional Council of Carpenters
northcountrycarpenter.org

Precision Exams
precisionexams.com

Realityworks, Inc.
realityworks.com

University of Wisconsin-Stout
uwstout.edu/programs/cte

zSpace
zspace.com

Affiliates

BestPrep
bestprep.org

Hospitality Minnesota
hospitalitymn.org

MCIS
education.state.mn.us/MDE/dse/ccs/MCIS

Avivo
avivomn.org
Summit Planning Committee

Pilot: Jeralyn Jargo, Minnesota State
Co-Pilot: Debra Hsu, Minnesota State and Michelle Kamenov, Minnesota Department of Education
Control Tower: Denise Felder, Minnesota State and Maxine Peterson, Minnesota Department of Education

Flight Crew
April Schnell, Minnesota Department of Education
Brian Cashman, Goodhue County Education District
Callon Siebenahler, South St. Paul Secondary
Dana Piper, Northeast Metro 916
Dean Breuer, Minnesota Department of Education
Debbie Larson, Anoka Hennepin School District
Debra Blahosky, Minnesota Department of Education
Eva Scates-Winston, Minnesota State
Florence Newton, Minnesota State
Jared Reise, Minnesota State
Jean Rakun, Wayzata Public Schools
Jennifer Norton, Minnesota Department of Education
Jess Lipa, Anoka Hennepin Schools
Jill Abbott, Minnesota State Community and Technical College

Joel Larsen, Minnesota Department of Education
John Rapheal, Minnesota Department of Education
Julie Ketterling, Saint Paul Public Schools
Kari-Ann Ediger, Minnesota Department of Education
Karl Ohrn, Northland Community and Technical College
Kathy Kittel, Saint Paul Public Schools
Lori Brumbaugh, Champlin Park High School
Lori Jensen, Rochester Community and Technical College
Nandi Rieck, District 196
Patrick Lair, Dakota County Technical College
Shannon Malovrh, Virginia Public Schools
Shelli Sowles, Minnesota Department of Education
Stephanie Meinke, Intermediate School District 917
Sue Boehland, Freshwater Education District
Yingfah Thao, Minnesota State
The Minnesota Association for Career and Technical Education is a representative, statewide, professional, umbrella organization of and for individuals who teach, administer, coordinate, and offer support services to students in secondary and post secondary career and technical education. MnACTE has expanded its mission to include business and community organizations that partner with Minnesota secondary and post secondary schools to enhance the career and technical offerings for students.

Carrie Hanson • ACTE/REGION III AND MINNESOTA ACTE CAREER GUIDANCE AWARD
Career and Technical Education Specialist and Carl D. Perkins Coordinator
Alexandria Technical and Community College

Carrie actively promotes high-school-to-college activities in the Runestone Perkins consortium. Each year she organizes many successful hands-on career events for students and teachers in the CTE college programs.

Craig J. Spreiter • MINNESOTA ACTE CARL PERKINS COMMUNITY SERVICE AWARD
Marketing Education Teacher
Tartan High School, Oakdale, MN

Having a strong DECA program and promoting financial literacy was the driving force for Craig to establish a student-operated, full-service branch of Ideal Credit Union inside Tartan High's school store.

Daniel Olson • ACTE/REGION III AND MINNESOTA ACTE AWARD OF MERIT
Certified Registered Nurse Anesthetist Specialist
Minneapolis – Saint Paul Hospitals including North Memorial Medical Center

Daniel has been a strong business partner advocating for Minnesota’s Health Science Education and promoting the development and sustainability of these high-wage, high-demand CTE programs in high schools and colleges.

Jill Johnson • ACTE/REGION III AND MINNESOTA ACTE TEACHER OF THE YEAR
Manufacturing & Engineering Teacher
Johnson High School, St. Paul Public Schools

Jill promotes access and equity as a manufacturing/engineering teacher in Johnson’s Aerospace and Engineering program. Enrollment is strong with almost 600 students including 241 females and 512 students of color.
Jeanette A. Karjala • ACTE/REGION III LIFETIME ACHIEVEMENT AWARD
Professor Emeritus, Business Education
Winona State University

Whether teaching in Washington, North Dakota, or Minnesota, Jeanette has been involved in career and technical education and its state, regional, and national professional associations for over fifty years.

Michael Mitchell • ACTE/REGION III AND MINNESOTA ACTE AWARD OF MERIT
Education Specialist in Health Science and Service Occupations (Retired)
Minnesota Department of Education

Michael served as the Education Specialist in Health Science and Service Occupations at the Minnesota Department of Education from 1999-2017 and was a champion for Minnesota Programs of Study initiatives and Technical Skill Assessments.

Mike Lehn • ACTE/REGION III AND MINNESOTA ACTE ADMINISTRATOR OF THE YEAR
Industry Education Alliance Manager
Minnesota Automotive Service Excellence (ASE)

With Mike’s support and encouragement, automotive teachers in Minnesota, North Dakota, South Dakota, and Montana can work towards achieving the highly-regarded NATEF automotive certification process with local industry partners involved.

Independent Consultant for Education and Agriculture Organizations
Former Vice President of Corporate Citizenship, CHS Inc. and President of CHS Foundation

William’s decades in business, education and organization leadership has been dedicated to building the future of career and technical education. Focuses included preparing future agricultural educators, developing STEM curriculum, renovating classrooms, and providing professional development to teachers.