

Thirty-Second Annual

**Conference on INTEGRATED LEARNING:
THE SCHOOL-TO-CAREER CONNECTION**

**Pennsylvania Department of Education
Bureau of Career and Technical Education**

www.education.pa.gov/integratedlearningconference



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF EDUCATION



November 8, 2023

Dear Educators:

It is my pleasure to welcome you to the 32nd annual Conference on Integrated Learning: The School-to-Career Connection. Over the past few years, educators had to be flexible and innovative in delivering instruction to Pennsylvania's students. Thank you for your diligence and willingness to adapt and learn.

We all work towards Governor Shapiro's goal of a high-quality education for all Pennsylvanians. The Pennsylvania Department of Education (PDE) leads this charge with a mission to ensure that every learner has access to a world-class education system that academically prepares students of all ages to succeed as productive citizens.

The Conference on Integrated Learning will showcase promising practices from educational leaders across the Commonwealth. Sessions will address topics like career development, business and industry partnerships, innovative strategies for engaging learners, and school performance. We hope that you find many practices to take back to your school with the intent to improve the educational experience for all learners.

Please enjoy the conference, learn something new, and connect with your colleagues. Thank you for your support and for providing students with meaningful choices.

Sincerely,

A handwritten signature in blue ink, appearing to read "K. Mumin", with a large, stylized flourish.

Khalid N. Mumin, Ed.D.
Secretary of Education

Conference on INTEGRATED LEARNING: THE SCHOOL-TO-CAREER CONNECTION

The Pennsylvania Department of Education's 32nd Annual Conference on INTEGRATED LEARNING: THE SCHOOL-TO-CAREER CONNECTION is designed to share successful strategies, which encourage the implementation of educational initiatives that enhance learning opportunities for all students. These initiatives focus on interdisciplinary approaches that include the identification of effective practices, use of data for decision making, business and community partnerships, career pathways, assessment, workforce development, and instructional strategies for lifelong learning.

CONFERENCE OBJECTIVES

- ▶ Encourage and raise awareness of interdisciplinary approaches which enhance learning opportunities.
- ▶ Feature successful teaching strategies that have the potential for replication.
- ▶ Facilitate the integration of academic, and career and technical education, which leads to successful college and career opportunities for all learners.
- ▶ Provide opportunities for networking and for building partnerships.
- ▶ Encourage team-building and leadership at the local level.
- ▶ Provide instructional strategies for lifelong learning opportunities.

The Strengthening Career and Technical Education for the 21st Century Act (Perkins V) requires that funds be used to support and strengthen academic and career and technical skills of students with a coherent sequence of courses. Pennsylvania's definition of Integration of Academic, and Career and Technical Education follows:

DEFINITION	Integration is the process of blending academic and career and technical education content utilizing applied methods that enhance the academic and occupational competencies of all segments of the student population.
PURPOSE	Increase student performance as we prepare high school students for further postsecondary education and careers to meet the expectations of the workplace in the 21st century.
METHOD	Integrated learning is a process to assist schools and instructors to improve student achievement. It is a way to change what is taught, what is expected, and how students and instructors interact. Integration should show a continuous growth of knowledge from secondary to postsecondary levels.

VISIT OUR COMMERCIAL AND EDUCATIONAL EXHIBITS

Wednesday from 10:00 AM – 5:00 PM
Thursday from 9:00 AM – 4:30 PM

TEAMBUILDING AND NETWORKING ARE ENCOURAGED THROUGHOUT THIS CONFERENCE

The following rooms are available for school groups to meet after 5:00 PM:

Wednesday – Rooms 104 and 105
Thursday – Rooms 104 and 105

Conference on INTEGRATED LEARNING: THE SCHOOL-TO-CAREER CONNECTION

CONTINUING PROFESSIONAL EDUCATION HOURS

Participants at this conference are eligible to receive professional education hours when they attend any of the sessions and/or preconference workshops listed on the Act 48 Forms.

MEALS

All conference meals, including lunch on Wednesday, breakfast and lunch on Thursday, and breakfast on Friday are included in your conference registration. Wednesday's dinner, for those who have paid the full registration fee, will be a buffet. Thursday's dinner is "on your own."

REFRESHMENTS

The Refreshment Break Areas are open for conference participants on Wednesday from 2:00 PM to 4:00 PM, on Thursday from 9:00 AM to 11:00 AM and 2:00 PM to 4:00 PM, and on Friday morning.

FOCUS STRANDS

BCTE Initiatives – information related to current Bureau of Career and Technical Education programs and initiatives

Coaching – partnering with teachers to help them improve teaching and learning so students are more successful

Classroom/School Performance – best practices and strategies to help teachers improve classroom teaching skills that impact student learning and achievement

Supporting All Students – having access to educational resources and rigor every student needs at the right moment in their education across race, gender, ethnicity, language, disability, religion, sexual orientation, gender identity, family background, and/or family income

Technology – helping teachers integrate new technologies and tools in their classrooms which enables them to engage their students in unique, innovative, and equitable ways

STUDENT DEMONSTRATION

Tyrone High School students will provide blood pressure screening on Thursday from 9:00 AM to 2:00 PM. The demonstration will be located in the Refreshment Break Area.

COMMERCIAL AND EDUCATIONAL EXHIBITS

Resources, catalogs, equipment, and other educational materials related to the integration of academic, career and technical education, and other school restructuring initiatives will be on display in the Lobby Area and the Courtyard Lounge on Wednesday from 10:00 AM to 5:00 PM and Thursday from 9:00 AM to 4:30 PM.

MATERIALS SHARING

Tables are located in the Conference Registration Area for participants and presenters to share materials. Extra handouts from various sessions will be available.

CONFERENCE EVALUATIONS

Assist the Conference Planning Committee in providing feedback to presenters and suggestions for improving next year's conference by completing the Conference Evaluation Form and the electronic Exit Ticket Survey for each session. Bring your completed Conference Evaluation Form to the Conference Registration Desk.

EMERGENCY EVACUATION

In case of an emergency, please exit the building and meet at the hotel front entrance parking lot.

8:00 AM – 5:00 PM **REGISTRATION**

9:00 AM – 12:00 PM **PRECONFERENCE WORKSHOPS**

10:00 AM – 5:00 PM **COMMERCIAL AND EDUCATIONAL EXHIBITS**

**Lobby Area
Courtyard Lounge**

Visit our exhibitors. Resources, catalogs, equipment, and educational materials related to the integration of academic, career and technical education, and other school restructuring initiatives will be on display.

11:30 AM – 12:45 PM **LUNCHEON BUFFET**

Presidents Hall

Your nametag will be your meal ticket.

1:00 PM – 2:30 PM **GENERAL SESSION**

Presidents Hall

WELCOME



Judd Pittman – Director, Bureau of Career and Technical Education
Pennsylvania Department of Education

Judd R. Pittman is a champion for policies, practices and programs that help learners enter careers that enable them to attain a family thriving wage. Judd spent 8 years as a middle school science teacher in Harrisburg City School District and spent 7 years serving on the Harrisburg City School District and Dauphin County Technical School Boards of Directors. He has served the Commonwealth of Pennsylvania as an educational consultant at the Pennsylvania Training and Technical Assistance Network (PaTTAN), as the Special Consultant to the Secretary of Education for STEM and as the Director of K -16 Initiatives at Thaddeus Stevens College of Technology. He now serves as the Director for the Bureau of Career and Technical Education. In addition Judd serves as the Chair for the International STEM Learning Ecosystem Community of Practice (SLECOPE).

KEYNOTE SPEAKER



Kevin Fleming – Educator, speaker, producer of the popular viral animation video, Success in the New Economy, and author of the bestseller, (Re)Defining the Goal.

Dissatisfied with the status quo, he has dedicated over two decades to advancing career education forward as a former business faculty member, Dean of Career and Technical Education, and community college Vice President. He works tirelessly towards a flexible, purpose-driven, student-focused, and career-minded educational model. Dr. Fleming's message encourages every education leader and stakeholder to support America's talented learners to make informed career decisions by developing the four skills necessary for true skills. He is a passionate advocate for ensuring all students intentionally discover their potential, enter the labor market with a competitive advantage, and find their purpose...on purpose.

2:45 PM – 3:45 PM **CONCURRENT SESSIONS****Room 104 Work-Based Learning in CTE: Participation, Outcomes, and Geographic Differences Across Pennsylvania's Secondary Schools**

Rosemary Riccardo – Research Assistant, Pennsylvania Department of Education
Brian Hutchison – Research Coordinator, Pennsylvania Department of Education

Members from the Pennsylvania Department of Education (PDE) internal research team will present findings from a series of research reports on work-based learning (WBL) in Pennsylvania. Sharing descriptive findings from two recent cohorts of secondary career and technical education (CTE) students, topics of discussion will include the rates of participation in WBL by cohort and across career clusters, student outcomes, such as, postsecondary enrollment and industry credential earning, and geographic differences in WBL participation across the Commonwealth. Results will be discussed through the lens of Pennsylvania's various and diverse student groups to examine topics of equity and inclusion.

Room 105 PDE Approved Career and Technical Programs – An Overview

Lisa Golding – CTE Advisor II, Family and Consumer Science, Bureau of Career and Technical Education, Pennsylvania Department of Education
Chris Davis – CTE Advisor II, Agriculture, Bureau of Career and Technical Education, Pennsylvania Department of Education
Nanette Anslinger – CTE Advisor II, Work Based Learning, Bureau of Career and Technical Education, Pennsylvania Department of Education

Are you curious about what is involved in having a career and technical-approved program at your school? Join Pennsylvania Department of Education's Career and Technical Advisors to hear about some of the basic components of career and technical programming. In this session, you will learn about what is involved in a high-quality CTE program and the necessary steps to gain approval.

Room 106 Marigold Mentors

Kaitlyn Olson – Instructional Coach, Lehigh Career and Technical Institute
Stacie Knehr Kutz – Instructional Technology Specialist, Lehigh Career and Technical Institute
Brian Day – Small Gas Engines Instructor, Lehigh Career and Technical Institute

Marigolds exist in our schools...encouraging, supporting, and nurturing growing teachers on their way to maturity. If you can find at least one marigold in your school and stay close to them, you will grow. Find more than one and you will positively thrive, Jennifer Gonzalez. See how our school has grown a garden of marigolds (mentors) that address both mentor and inductee needs. More importantly, listen to a new teacher share about the mentor and other marigold supports he has made throughout his first year of teaching.

Room 107 Harnessing Technology for Effective CTE Instruction

Charles Raybold – Machine Technology Instructor, Bucks County Technical High School
Hank DeGeorge – Administrative Director, Bucks County Technical High School
Lynthia Scott – Vice Principal, Bucks County Technical High School

The presentation will explore the benefits of Learning Management Systems (LMS), Artificial Intelligence (AI), and the implementation of the flipped classroom method. This session will provide educators with practical strategies and insights to enhance CTE instruction and improve student outcomes.

Room 108 Using the CTC as a Conduit for Community Engagement

Stacey Minahan – Assistant Director, Schuylkill Technology Center
Gretchen Witman – Social Worker, Schuylkill Technology Center

Join us for a conversation exploring how the CTC, as a central organization in your community, can promote and enhance imperative initiatives across all stakeholder groups including students, parents, industry partners, community agencies, and the population at large. Hear how our school, through the School Climate Initiative, sparked a ripple effect of positive change in the community. Come prepared to share your experiences accessing your school's integral role in community engagement while promoting a more positive image of CTE.

Room 109 Overview of the Office of Vocational Rehabilitation: Pre-Employment Transition

Dana McKinney – Student and Youth Employment Specialist, Office of Vocational Rehabilitation
Mara Wolfe – Vocational Rehabilitation Specialist, Office of Vocational Rehabilitation

This presentation will give an overview of the Pennsylvania Office of Vocational Rehabilitation's Pre-Employment Transition Services (Pre-ETS) for students ages 14-22, in group and individual settings. Learn about the agency's current initiatives and how they impact special populations students in career and technical education programs.

Room 204 Toolkit for Preparing Stakeholders for Interviewing Gen Z Students in CTE

Andrea Vaughn – Adult Education Supervisor, Workforce Programs and Grant Management, Chester County Intermediate Unit, Chester County Technical College High School
Francesca Wells – CTCE Workforce Development Programs Administrative Assistant, Chester County Intermediate Unit, Chester County Technical College High School
Claudia Morrell – Chief Executive Officer, STEM Equity Initiative

This session will present a new toolkit, which includes multiple resources and a brief video, to educate stakeholders about interacting with Gen Z students in CTE before mock, pre-employment, and employment interviews. Historically, employers, staff, alumni, and community members attend programs to help prepare students for employment. These individuals bring their own experiences of interviewing and hiring, which may not always take into account changing demographics, experiences, and times. This toolkit, which has been rated highly by those who participated in a thirty-minute training, has been well-received as helpful and a valuable use of their time. These materials are also useful for preparing students for the interview process. Participants will have access to a brief video and the downloadable toolkit to use in their schools. This session will be repeated on Thursday at 10:15 AM.

Room 205 The Changing World of Juvenile Justice and Its Impact on the Classroom

John Augustine – Administrative Director, Greater Johnstown Career and Technology Center
Melony Gaudlip – Adjudicated Youth Educated Programs Consultant, PACTT (Pennsylvania Academic and Career Technical Training) Alliance
Cheyenne Tyler – Director of Programs, Cafe Momentum
Will Kiefer – Executive Director, Bench Mark

The Juvenile Justice system is changing rapidly. The days when a youth would be removed from your classroom for committing an offense are largely in the past. What does this mean to you, and what can you expect when these youth return to your classroom? The courts prefer to put youth in community-based facilities (evening and weekend attendance) whenever possible. The consistent

partner in these facilities is PACTT (Pennsylvania Academic and Career Technical Training) Alliance. PACTT adds value to these programs by sharing 27 Soft Skills that are to be covered by the facility, as well as ensuring the youth receive at least one industry recognized certificate while in placement. In addition, the facilities agree to provide career training or help youth gain employment. Another area that is changing is the types of facilities that these youth may be sent to. Two examples of these new facilities are Cafe Momentum in Pittsburgh and Bench Mark in Lancaster. Cafe Momentum's mission is to transform young lives by equipping Pittsburgh's justice-involved youth with life skills, education, and employment opportunities to help them achieve their full potential. The youth also graduate with the skills to work in any fine dining establishment. Bench Mark is a weightlifting/boxing facility that teaches that the gym is more than a place for physical exercise. It is a safe, positive space to teach hard work, goal setting, and perseverance. In addition, the overarching goal is student leadership development, with many former participants hired to work at the facility.

Room 206 Using Grandma's Cookies for School Success

Laura Hicks – Director of Workforce Development, Huntingdon County Career and Technology Center

Chuck Culbertson – Paraeducator, Huntingdon County Career and Technology Center

In today's world, life is extremely stressful for students, staff, and faculty. This presentation will give strategies on how to adapt and overcome negativity by utilizing Grandma's cookies and sage advice in today's environment. Best practice strategies like celebrating success through social media and using staff meetings to foster positivity and program infrastructure to encourage teamwork and collaboration will be shared. Disclaimer – milk is not included! This session will be repeated on Thursday at 10:15 AM.

4:00 PM – 5:00 PM CONCURRENT SESSIONS

Room 104 Canvas LMS and Program Task Lists

Lauren Hopkins – Digital Media Arts Instructor, Clearfield County Career and Technology Center

Tiffany Cover – Principal/Assistant Director, Clearfield County Career and Technology Center

This session will explore the way teachers can use the Canvas Learning Management System (LMS) to link assignments directly to his/her program's task list. This allows teachers, students, and parents to see the growth throughout the year on individual tasks and how individual assignment grades directly impact the proficiency of each task on the task list. This session will be repeated on Friday at 8:45 AM.

Room 105 Navigating the FRCPP and CATS

Jean Kelleher – Program Standards & Quality Assurance Manager, Bureau of Career and Technical Education, Pennsylvania Department of Education

Tammy Keisling – Business Analyst, Bureau of Career and Technical Education, Pennsylvania Department of Education

During this presentation, we will discuss how to submit a program for CATS approval from start to finish in the Future Ready Comprehensive Planning Portal (FRCPP). We will also review how to update your already approved/reapproved programs and review important CATS submission dates for the 2023-2024 and 2024-2025 school years.

Room 106 Conversations in Coaching

Stacie Knehr Kutz – Instructional Technology Specialist, Lehigh Career and Technical Institute
Kaitlyn Olson – Instructional Coach, Lehigh Career and Technical Institute
Michael Stein – CTE Innovation Systems Coordinator, Berks Career and Technology Center

Instructional Coaches...Technology Coaches...Literacy Coaches...Soccer Coaches...are they all the same? While some basic tenets hold true, coaching can look very different depending on the needs and structure of each school. Panel members will share what coaching looks like to them and their schools, as well as answer questions based on their unique experiences. If you have coaches within your school or are looking to possibly add coaches to your staff, come hear what coaching can look like from a variety of perspectives.

Room 107 30 Tech Tools for Engagement, Efficiency, and Formative Assessment

Brent Bryant – Networking Systems Instructor, Seneca Highlands Career and Technical Center

In this fast-paced presentation, a CTE teacher will showcase 30 free/freemium tools to facilitate formative assessment, improve lesson engagement, and streamline instructional tasks. Learn these 30 tools that you will be able to use in your CTE program.

Room 108 Classroom Management: Rules are Made to be Broken

Jody Gunter – Health Occupations Technology Instructor, Clearfield County Career and Technology Center

Effective classroom management is essential for positive student-teacher relationships and for the growth of a productive learning environment. How can a teacher establish these positive and respectful relationships with students, create a learner-centered dynamic, and constructively manage conflict? The presenter will discuss how having a “no rules” classroom can work for you and your students. This session will be repeated on Thursday at 9:00 AM.

Room 109 Supporting Special Populations Students in CTE

Cynthia Gross – Career and Technical Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

This session will introduce Supporting Special Populations Students in CTE, an online, self-paced course designed for school leaders, support staff, and classroom teachers involved in career and technical education. The presenter will preview several of the ten modules in this course. Modules are specific to each of the Perkins V special populations categories. Links to additional resources for each category are included in the modules. The modules may also be helpful for your stakeholders as you and they prepare for the upcoming comprehensive local needs assessment (CLNA) this fall/winter. This session will be repeated on Thursday at 2:00 PM.

Room 204 Certification Pathways for Potential Career and Technical Educators

Kurt Adam – Career and Technical Distinguished School Leader (CTDSL), Pennsylvania Department of Education

Aldo Jackson – Career and Technical Distinguished School Leader (CTDSL), Pennsylvania Department of Education

Career and Technical Education is the cornerstone to Pennsylvania's economic future. Attracting and retaining high quality educators is necessary to expand access to career and technical education. The current certification pathways are cumbersome to navigate and can act as a potential barrier to growing the number of career and technical education educators in the workforce. Join Career and Technical Distinguished School Leaders (CTDSLs) in a collective conversation to help identify ways to modernize the certification pathways and attract new talent to the CTE workforce. Audience participation will drive our discussion. Join us to share your ideas and influence future priorities, policies, programs, and funding strategies.

Room 205 CTE Safety: Keeping It Safe by Employing Experiential Learning Strategies

Mark Threeton – Associate Director, Professional Personnel Development Center for CTE, Penn State University

Career and technical programs present challenges when it comes to safety. Many times, it feels that when safety practices increase, engagement goes down. In this session, we will discuss why this does not need to be the case. Safety will be discussed, including best practices and suggestions for improving student safety while maintaining engagement.

Room 206 CTSOs – The Connection from Classroom Participation to Job Readiness

Cindy Midgett – Dental Occupations Instructor, Middle Bucks Institute of Technology

The Pennsylvania Department of Education requires CTSOs to be co-curricular in the CTE classroom. This is often hard to implement and may seem daunting for CTE staff. What if you could implement the CTSO and provide workforce readiness skills at the same time? What if you could use the CTSO to enhance the management of the classroom? What if you could use CTSOs to increase the participation of your students and provide student buy-in to classrooms and the school vision? Well you can, and I will show you how! The skills required to participate in CTSOs mirror the skills required to be career-ready. CTSOs provide a myriad of resources – let's learn how to use them to meet your co-curricular requirements and mold your students into future members of the workforce. This session will be repeated on Thursday at 9:00 AM.

6:00 PM – 8:00 PM **CONFERENCE DINNER BUFFET**

Presidents Hall PRESIDING

Judd Pittman – Director, Bureau of Career and Technical Education
Pennsylvania Department of Education

DINNER SPEAKER



Khalid N. Mumin – Secretary of Education
Pennsylvania Department of Education

For over 25 years, Dr. Khalid N. Mumin has served in various capacities as a teacher, dean of students, principal, and central administrator. Most recently, Dr. Mumin served as the Superintendent of Schools at Lower Merion School District. Prior to Lower Merion, Dr. Mumin was the Superintendent of Reading School District for seven years. Beginning as a Secondary English teacher in Scotland, Pennsylvania in 1997, Dr. Mumin rose through the leadership ranks of the education system in Pennsylvania. Dr. Mumin is committed to promoting and sustaining student achievement, equity, and access to educational programming for all students, as well as creating plans that are fiscally responsible. He has been recognized nationally as a “School Board Savvy Superintendent,” and is the author of the book entitled Problem Child: Leading Students Living in Poverty Towards Infinite Possibilities of Success.

2024 PENNSYLVANIA CAREER AND TECHNICAL EDUCATION POSTER AWARD



Levi Rachau – Advertising Design and Commercial Art Student, Central Pennsylvania Institute of Science and Technology



7:30 AM – 8:45 AM **BREAKFAST**

Presidents Hall The Penn Stater Breakfast Buffet

9:00 AM – 4:30 PM **COMMERCIAL, EDUCATIONAL AND STUDENT EXHIBITS**

Lobby Area
Courtyard Lounge
Refreshment Area Visit our exhibitors. Resources, catalogs, equipment, and educational materials related to the integration of academic, career and technical education and other school restructuring initiatives will be on display.

9:00 AM – 10:00 AM **CONCURRENT SESSIONS****Room 104 CTSOs – The Connection from Classroom Participation to Job Readiness**

Cindy Midgett – Dental Occupations Instructor, Middle Bucks Institute of Technology

The Pennsylvania Department of Education requires CTSOs to be co-curricular in the CTE classroom. This is often hard to implement and may seem daunting for CTE staff. What if you could implement the CTSO and provide workforce readiness skills at the same time? What if you could use the CTSO to enhance the management of the classroom? What if you could use CTSOs to increase the participation of your students and provide student buy-in to classrooms and the school vision? Well you can, and I will show you how! The skills required to participate in CTSOs mirror the skills required to be career-ready. CTSOs provide a myriad of resources – let's learn how to use them to meet your co-curricular requirements and mold your students into future members of the workforce.

Room 105 Preparing for a Perkins Monitoring Review

Jean McCleary – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

Ashley Hoke – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

Cynthia Gross – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

New Perkins contacts/directors are especially encouraged to attend this session to learn about procedures and expectations for an onsite review. Equipment inventory procedures, Perkins-funded job descriptions, and time logs will be discussed. Assurance files to document your efforts to implement grant requirements will be stressed. This session is open to all Perkins recipients.

Room 106 Using Employability Skills to Improve School Climate and Teach Social and Emotional Learning (SEL)

Stacey Minahan – Assistant Director, Schuylkill Technology Center

Gretchen Witman – Social Worker, Schuylkill Technology Center

Career and technical centers (CTCs) have a unique advantage when it comes to improving SEL as they strive to educate students in the realm of vocational readiness. We will demonstrate how focusing on employability skills such as motivation, adaptability, teamwork, emotional regulation, reliability, integrity, strong work ethic, communication skills, and problem-solving can positively affect student success while also increasing the social and emotional skills often identified as "lost" in today's youth. While we focus on employability skills, we engage students who have chosen a CTC and are already invested in their futures. Over time, improving student outcomes regarding

employability can have the added bonus of improving the school environment concerning relationships among students and staff, behavior, academic success, job placement, and morale.

Room 107 Emerging Technology: To Block, or Not to Block...That is the Question

Stacie Knehr Kutz – Instructional Technology Specialist, Lehigh Career and Technical Institute

When does the use of technology inhibit learning and when does it enhance learning? Artificial intelligence and natural language processing have produced chatbots, like Chat GPT and Google Duet, which simulate human conversation and written responses. They provide quick and accurate replies and can reduce workload. However, they pose risks, such as cyberbullying, plagiarism, and off-task behavior. We will look at some examples of AI in action, discuss some creative ways to use AI to enhance learning, and have some open dialogue, ultimately trying to answer the question, “OpenAI...to block or not to block in a school environment?”

Room 108 We Have People for That!

Laura Hicks – Adult Education Coordinator/CLNA Coordinator, Huntingdon County Career and Technology Center

Corey Brumbaugh – Owner/Operator, Brumbaugh Lumber, LLC

Perkins stakeholders, OAC members, and even Cooperative Education sites can become champions for fighting the stigma of career and technical education (CTE) opportunities. Creating strong partnerships with business and industry leaders within your community can create opportunities for grants, recruitment, and even support for new program development. When a successful quid pro quo relationship is in place, the community becomes filled with professionals advocating CTE on your behalf. This presentation will focus on best practice initiatives that showcase the need to engage business partners for the success of nontraditional students, Cooperative Education programs, and post-graduation placement.

Room 109 Classroom Management: Rules are Made to be Broken

Jody Gunter – Health Occupations Technology Instructor, Clearfield County Career and Technology Center

Effective classroom management is essential for positive student-teacher relationships and for the growth of a productive learning environment. How can a teacher establish these positive and respectful relationships with students, create a learner-centered dynamic, and constructively manage conflict? The presenter will discuss how having a “no rules” classroom can work for you and your students.

Room 204 NCCER’s Industry Recognized Construction Credentials and Curriculum

John Augustine – Administrative Director, Greater Johnstown Career and Technology Center

Kaylene Smith – Workforce Development Manager, National Center for Construction Education and Research (NCCER)

Susan Muggeo – Executive Director, Pearson

Why do industry-recognized credentials matter? Growing accountability mandates, uneven economy, and increasing workforce demands are challenging you to find new opportunities for preparing your career-aspiring students for gainful employment. Using new and improved features, such as online learning and testing, digital credentials, and remote proctoring, makes learning better for the students

and gives instructors the tools to allow them to spend more time with hands-on labs and make important connections with industry partners. The PDE has compiled a list of industry-recognized credentials and NCCER is included for 10 areas in the construction industry. NCCER's training process of accreditation, instructor certification, standardized curriculum, national registry, and certification is a key element in developing a skilled workforce of future construction professionals.

Room 205 Special Populations Students – Strategies for Success

Wendy Chalmers – Learning Support Teacher, SUN Area Technical Institute

Join this session to share strategies and ideas related to serving all students. Tell us about what's working in your school, maybe a form that you have developed to support students, or a process that works well for you. Audience participation is encouraged. Opportunities to have others provide solutions to problems you are facing will also be part of this session.

Room 206 Authentic Collaborative Training

Tiffany Cover – Assistant Director, Clearfield County Career and Technology Center
MaryAnn Volders – President, Central Pennsylvania Institute of Science and Technology

These school representatives have worked together to design and implement an Authentic Collaborative Training (ACT) program for their teachers. ACT provides the opportunity for teachers to visit another CTC, walk through various programs in the school, and see models of educational strategies being implemented. Following the walk-through sessions, a consultant facilitates discussions about what was seen and how the highlighted strategies were employed. This leads teachers, who have walked through the programs, to share what they have learned and how they might employ these concepts. Participants will learn how this professional development process was organized and then used to guide teachers from multiple schools to collaborate and learn. This session will be repeated on Thursday at 12:45 PM.

Room 207 Career Development Programs in High School Settings

Jill Hackman – Career Pathways Coordinator, Eastern Lancaster County School District
John Robbins – Transition Coordinator, Eastern Lancaster County School District

Learn about the career development programs at our school, a traditional high school, including internship, cooperative education, and career coaching. Attendees will learn about program supports and activities that enable students to make wise career choices and graduate with a realistic career plan. Attendees will also learn how to develop a cost-effective career pathways program within existing school structures.

10:15 AM – 11:15 AM CONCURRENT SESSIONS

Room 104 Developing Public Speaking Skills

Michele Eaborn – Health Occupations Instructor, Western Area Career and Technology Center
Palmaann Darenkamp – Field-Based Instructor, Indiana University of Pennsylvania

This session will describe how Health Occupations students complete a weekly speaking assignment and an end-of-year project for the clinical staff at a local healthcare facility. We will share student assignments and their feedback. Learn how the instructor sets up community clinical experiences and works with staff members at local health facilities.

Room 105 How to Prepare for an On-site Approved Program Evaluation (APE)

Jean Kelleher – Program Standards & Quality Assurance Manager, Bureau of Career and Technical Education, Pennsylvania Department of Education

Are you new to the world of PDE-approved programs and have been informed that PDE is coming for an evaluation? If so, your attendance is recommended at this session to learn the ins and outs of a successful visit. This session also doubles as a training session if you would like to become a volunteer and assist with on-site visits. There is always something learned when you attend this session and the on-site visits.

Room 106 Instructional Coaching: From Advocacy to Action

Kelly Cahoon – Curriculum and Instruction Director, Lehigh Career and Technical Institute

Identifying the need for a coach in your school isn't enough. It is important to clearly determine that position's role within the school environment, develop a plan for integrating that person into the systematic planning and support of the school, and help others see and understand that vision as well. Once that can be established, there are the logistics of justifying and securing funding for the new staff member, advertising for the right candidate, and supervising the unique position of an instructional coach. The presenter will share the school's journey through this process and how they have grown in their advocacy for coaching.

Room 107 Making Technology New Again

John Williamson – Instructional Technology Coach, Greater Altoona Career and Technology Center

At our school, we ask faculty and staff to provide feedback on the school's Learning Management System and other technology-related issues several times during the school year. Professional development is then developed based on this information for in-service days, lunchtime learning, and one-on-one help. During this session, the presenter will be sharing some experiences and challenges of instructors using games, and other technologies to help increase performance within their programs. These include Edpuzzle, Wordtune, Gimkit, Wordwall, Banzi, and CTE Online.

Room 108 Using Grandma's Cookies for School Success

Laura Hicks – Director of Workforce Development, Huntingdon County Career and Technology Center

Chuck Culbertson – Paraeducator, Huntingdon County Career and Technology Center

In today's world, life is extremely stressful for students, staff, and faculty. This presentation will give strategies on how to adapt and overcome negativity by utilizing Grandma's cookies and sage advice in today's environment. Best practice strategies like celebrating success through social media and using staff meetings to foster positivity and program infrastructure to encourage teamwork and collaboration will be shared. Disclaimer – milk is not included!

Room 109 Creating a Safe Culture in the CTE Classroom

Julia Harhai – Culinary Arts Instructor, Fayette County Career and Technical Institute

Bethany Hopkins – Culinary Arts Instructor, Forbes Road Career & Technology Center

Kara Romance – Business Education Faculty, Indiana University of Pennsylvania

This session will focus on ways to appropriately identify, address, and discuss topics of a sensitive nature. It will provide classroom strategies and techniques to help foster an inclusive program culture and maintain boundaries to create a safe space where all students feel safe to learn and contribute in the CTE environment.

Room 204 Toolkit for Preparing Stakeholders for Interviewing Gen Z Students in CTE

Andrea Vaughn – Adult Education Supervisor, Workforce Programs and Grant Management, Chester County Intermediate Unit, Chester County Technical College High School
Francesca Wells – CTCE Workforce Development Programs Administrative Assistant, Chester County Intermediate Unit, Chester County Technical College High School
Claudia Morrell – Chief Executive Officer, STEM Equity Initiative

This session will present a new toolkit, which includes multiple resources and a brief video, to educate stakeholders about interacting with Gen Z students in CTE before mock, pre-employment, and employment interviews. Historically, employers, staff, alumni, and community members attend programs to help prepare students for employment. These individuals bring their own experiences of interviewing and hiring, which may not always take into account changing demographics, experiences, and times. This toolkit, which has been rated highly by those who participated in a thirty-minute training, has been well-received as helpful and a valuable use of their time. These materials are also useful for preparing students for the interview process. Participants will have access to a brief video and the downloadable toolkit to use in their schools.

Room 205 Creating Equitable Learning Environments in CTE for All Students: Application in Action

John Dowling – STEM Excellence in Engineering Leader/Automotive Technology Instructor, Chester County Technical College High School, Pennock's Bridge
Jillian Bilal – STEM Excellence in Engineering Leader/Academic Remediation Specialist, Chester County Technical College High School, Pennock's Bridge
Alvin Miller – STEM Excellence in Engineering Leader/HVAC Instructor, Chester County Technical College High School, Pennock's Bridge
Kalpesh Doshi – STEM Excellence in Engineering Leader/Computer Information Systems Instructor, Chester County Technical College High School, Pennock's Bridge

Recent evidence collected through a National Science Foundation Grant (EEC-BPE 2135080) indicates the positive role that an equitable learning environment combined with the engineering design (ED) pedagogical practice can play in STEM (including CTE). The model called NEIR-ED (Normalize, Empower, Inclusive, and Relevant Engineering Design) demonstrates how together NEIR and ED elements increase student interest, engagement, and enjoyment in secondary STEM/CTE classrooms to ensure that all students, particularly those underrepresented in STEM/CTE succeed and persist in STEM/CTE coursework and programs. In 2022-2023, 14 science and technology educators (five from CTE) participated in a yearlong program to design and develop an innovative program that integrates the high-quality pedagogy of the engineering design method with four ELE indicators to improve academic and personal outcomes for all students, including those traditionally underrepresented in CTE programs. Eleven of the teachers became the teacher leaders for the 2023-2024 professional development experience welcoming 15 new STEM/CTE teachers as prospective teacher leaders of this system change model. In this presentation, you will hear from the STEM/CTE teachers about this new model and how their foundational practices reshaped their thinking in the classroom and across their schools to improve their student's academic and social outcomes. This session will be repeated on Thursday at 3:15 PM.

Room 206 Engaging Activities with Differentiated Instruction

Lisa Pison – Instructional Technology/Web Design Instructor, Reading Muhlenberg Career and Technology Center

Emily Hilliard – Baking Instructor, Reading Muhlenberg Career and Technology Center

Students thrive when the classroom is engaging, authentic, and meeting their personalized educational needs. You can add a variety of elements using differentiated instruction (DI) strategies that will meet all learning levels and learning styles of your students. We will be demonstrating different DI strategies that will be applicable within the classroom and the lab. These versatile, student-centered strategies are perfect for all levels of teachers, including new teachers, and can be used to boost engagement and create a positive learning environment where students can not only have fun but also increase task completion. This session will be repeated on Thursday at 2:00 PM.

Room 207 Three Steps to Successfully Implement Simulations in the Classroom

Dennis Mumau – HVAC Instructor, Indiana County Technology Center

Kenneth Midgett – Plumbing Market Director, Interplay Learning

Macy Logan – Education and Workforce Development Account Executive, Interplay Learning

While the growing skilled labor gap continues to widen and training for skilled trades has never been more critical, giving students the hands-on practice they need to prepare for the real world remains a challenge. During this session, you will learn the three key steps for successfully incorporating simulations in your classroom to give students unlimited, hands-on experiences in a fun, safe, and competitive way. We'll share best practices for identifying simulations that align with your curriculum and tips for implementation. You'll find out how to use simulations to reinforce lectures and lab assignments, and how this innovative technology can be used as a recruiting tool to attract more students.

11:30 AM – 12:30 PM **LUNCHEON BUFFET**

Presidents Hall Your nametag will be your meal ticket.

12:45 PM – 1:45 PM **CONCURRENT SESSIONS**

Room 104 Community Involvement Ideas with Career and Technical Education

Amanda Smith – Cooperative Education Coordinator, Milton Area School District

Jennifer Mabus – Agriculture Paraprofessional, Milton Area School District

Andrew Rantz – Co-Principal/CTE Coordinator, Milton Area School District

This presentation will provide a brief outline of the community involvement events we have developed at our school. We will discuss those activities that have worked well, and opportunities to share activities with other educators. This session will be interactive and provide an opportunity for collaboration within the classroom.

Room 105 Perkins 101

Jean McCleary – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

Ashley Hoke – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

Jeremy Miller – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

New Perkins contacts/directors are especially encouraged to attend this session to learn the process for completing the Perkins Local Plan in eGrants, Perkins V federal regulations, and the Perkins Performance Report. The presentation will include several resources and navigation of the PDE website, Guidelines, State Plan, PACTA resources page, and PDE/BCTE contacts. This session is open to all Perkins recipients.

Room 106 What Are We Going to Treasure, Tweak, and Toss?

Candace Claar – Assistant Teaching Professor, Professional Personnel Development Center, Pennsylvania State University
Patricia Leibfreid – Assistant Teaching Professor, Professional Personnel Development Center, Pennsylvania State University

There is no one-size-fits-all when it comes to teaching. Your instructional methods, content, personality, and attitude all influence your daily teaching. What instructional strategies were successful for your students? Treasure what strategies and methods were effective throughout the year. What aspects went well, but may need some tweaking? Tweaking is crucial to our teaching practice, indicating where you are and where you want to be in your instructional teaching methods. Finally, what aspects could have been more successful or were counterproductive in fulfilling your instructional goals? What are the instructional methods or strategies that you will toss? Being reflective and intentional, figuring out what to toss or tweak, will help us to find the treasures of our practice. This session will be repeated on Thursday at 3:15 PM.

Room 107 Empowering Pennsylvania's Future Workforce with AR/VR/XR: Innovative Strategies for Career and Technical Education

Dipal Kapadia – Information and Educational Technology Director, Lehigh Career and Technical Institute
Ben Peterson – CTE Solutions Director, zSpace, Inc.

Discover how districts, technical centers, and community colleges have taken their STEM and CTE programs and labs through creative approaches that include augmented and virtual reality (AR/VR). Learn how the presenter has taken a unique approach to workforce preparedness. Using AR/VR, he rotates students through real-world activities in Health Sciences, Advanced Manufacturing, Agri-Science, and Transportation to expose students to multiple career pathways. Attend this session to understand the AR/VR landscape and those that are aligned to STEM curriculum and CTE certifications, discover clinical evidence supporting learning gains through learning with AR/VR, and identify funding sources for new technology.

Room 108 From the Students Out: Building a Secondary Teacher Education Pathway

Gina Dukes – English Instructor, Science Leadership Academy at Beeber, School District of Philadelphia
Mary Connaghan – History Instructor/Roster Chair, Science Leadership Academy at Beeber, School District of Philadelphia
Gabriel Kuriloff – Assistant Principal, Science Leadership Academy at Beeber, School District of Philadelphia

This session will explore the five-year development process of one of the first-in-the-state CTE programs in General Education (CIP 13.0101). Presenters will share the multiple iterations and pilot implementations of partnerships, concepts, strategies, and learning experiences that ultimately

led to a four-year learning pathway culminating in a two-year CTE experience for students. We will also discuss the creation of the CTE teaching pathway and its development in Pennsylvania. Presenters will explain how one school leveraged student interest and local partnerships to develop the components of a career pathway and ultimately a CTE program in General Education. We will share the design of our Teaching Assistant program; our partnership with local universities for dual enrollment classes taught both on our campus and at theirs; and our curriculum partnership with a local non-profit. Audience members will develop an understanding of the course sequence, course expectations, supportive after-school and summer programming, and assessment strategies including a NOCTI exam which is under development. Finally, we will explore the role our students have played in the development of our programming and how they are currently experiencing this work, including hearing from students themselves and examining some of their applied work. This session will be repeated on Thursday at 2:00 PM.

Room 109 Visionary Individualized Planning Process: Supporting all Students for Career and College Success

Marc Abels – High School Principal, Hanover Public School District
Tessa Hilyard – Middle School Principal, Hanover Public School District
David Fry – Technology Director, Hanover Public School District

This presentation will focus on the Visionary Individualized Planning Process. This process is a goal-setting program that provides each student in grades 7-12 with an individualized goal-setting plan for the future. The program was designed to respond to the need to better prepare students for career and college readiness and is aimed at assisting students in setting and monitoring both short-term and long-term goals for their future. The presentation will outline each step of the Process as well as provide participants with ideas for implementation in their school districts.

Room 204 Teacher Response to a Personalized Professional Development Program

Lesli Shuman – Assistant Director, Franklin County Career Technology Center
Megan Baker – Engineering Technology Instructor, Franklin County Career and Technology Center
Pat Parson – Automotive Collision Technology Instructor, Franklin County Career and Technology Center
Eric Wagaman – Building Construction Trades Instructor, Franklin County Career and Technology Center
Terry Miller – Director, Franklin County Career and Technology Center

Educators are expected to differentiate instruction for their students, but most of the time educators go through "one size fits all" professional development training. Our school has changed "the one size fits all" model by offering differentiated professional development opportunities for its teachers. Teachers have the opportunity to participate in personalized professional development. This gives each teacher the latitude to design their professional growth program for the school year. Each teacher's personal growth target is monitored monthly by the assistant director and an outside consultant. This program is now in its third year of operation. Teachers have responded very positively to the conceptual framework of this program. The teachers and school leaders maintain a fluid approach to the program through regular conversation and evaluation of this unique professional development approach. In this session, the presenters will outline how the program is facilitated and then provide teacher responses to the benefits of the personalized approach.

Room 205 Authentic Collaborative Training

Tiffany Cover – Assistant Director, Clearfield County Career and Technology Center
MaryAnn Volders – President, Central Pennsylvania Institute of Science and Technology

These school representatives have worked together to design and implement an Authentic Collaborative Training (ACT) program for their teachers. ACT provides the opportunity for teachers to visit another CTC, walk through various programs in the school, and see models of educational strategies being implemented. Following the walk-through sessions, a consultant facilitates discussions about what was seen and how the highlighted strategies were employed. This leads teachers, who have walked through the programs, to share what they have learned and how they might employ these concepts. Participants will learn how this professional development process was organized and then used to guide teachers from multiple schools to collaborate and learn.

Room 206 Integrating AI into the CTE Learning Environment – Use and Tools

Michael Stein – CTE Innovation Systems Coordinator, Berks Career and Technology Center

This session will discuss the intersection of Artificial Intelligence (AI) and career and technical education. The presentation will delve into how AI is revolutionizing the future of CTE – impacting students, instructors, and administrators. It will shed light on the implications of AI and the challenges of integrating AI in CTE, such as data privacy and ensuring equitable access.

Room 207 How Regional Educational Partnerships Can Foster Student Success with a Robust, Portable Academic/Career Plan and Portfolio System

Jennifer Farley – Administrator of Educational Services, Northern Tier Career Center
Lyndsay Coleman – Career Coach, Northern Tier Regional Planning and Development Commission/
Athens Area School District
Monica McCarty – School Outreach Specialist, BLaST IU 17

This presentation will focus on the Northern Tier coming together to support the integration of the CEW standards into every classroom for every student. This is done through the delivery of an online employability skills curriculum that is directly aligned with the Pennsylvania CEW standards and provides a solid foundation of career readiness and social-emotional learning (PA Career Ready Skills) for all students. The presentation team will highlight their coordinated approach that includes the district, CTC, and IU coming together on a shared platform to ensure students individualized, portable, K-12 career plans and portfolios that meet the career readiness indicators as they prepare for their successful futures. The presentation team will also discuss how all stakeholders, including parents, business and industry, and post-secondary partners benefit when students gain the skills they need to make informed postsecondary decisions. Specific examples of how each stakeholder can benefit from and engage in the delivery of the SmartFutures Career Plan and Portfolio will be provided.

2:00 PM – 3:00 PM **CONCURRENT SESSIONS**

Room 104 Building an Apprenticeship Pathway – Strategies to Successful Pre-apprenticeships

Laura Fridirici – Career Readiness Advisor, Pennsylvania Department of Education
Danielle Demirovic – Pre-Apprenticeship Manager, Apprenticeship & Training Office, Pennsylvania
Department of Labor & Industry
Keith McCracken – Welding Instructor/Cooperative Education Coordinator, Indiana County
Technology Center
Ed Bower – Training Coordinator, JWFI Industries, Johnstown
Jason Burgert – Career & Technical Education Director, Erie's Public Schools
Michelle Harkins – Executive Director, Early Connections, Erie

In this session, join the presenters as they share resources and strategies to build a pre-apprenticeship/apprenticeship program and facilitate a discussion on strategies and best practices. Learn from emerging and existing apprenticeship career pathway education and industry leaders in a panel discussion about this vital workforce pathway to employment for all learners.

Room 105 Supporting Special Populations Students in CTE

Cynthia Gross – Career and Technical Advisor II, Bureau of Career and Technical Education,
Pennsylvania Department of Education

This session will introduce Supporting Special Populations Students in CTE, an online, self-paced course designed for school leaders, support staff, and classroom teachers involved in career and technical education. The presenter will preview several of the ten modules in this course. Modules are specific to each of the Perkins V special populations categories. Links to additional resources for each category are included in the modules. The modules may also be helpful for your stakeholders as you and they prepare for the upcoming comprehensive local needs assessment (CLNA) this fall/winter.

Room 106 The Hard Hat Challenge: Engaging Students with the Program of Study

Malcolm Roach – Construction Carpentry Instructor, Middle Bucks Institute of Technology

During the first few years as an instructor, the presenter struggled to have his students become truly engaged with the program of study. Sharing spreadsheets and checklists yielded results but not the results he had hoped for. A student who is engaged fully in the program ideally should understand and want to complete all of the tasks within the program of study provided by the Pennsylvania Department of Education. The question remains on how to get the students to this level of engagement. The presenter will share with you how a Saturday morning watching football and eating hot wings provided him with the idea that allowed him to move his students to a higher level of Program of Study engagement.

Room 107 Curriculum Arcade – More Games to Foster Engagement and Learning in the Classroom

Sherry Appleton – Medical and Health Professions Instructor, Middle Bucks Institute of Technology
JoAnn McLaughlin – Cosmetology Instructor, Middle Bucks Institute of Technology

Game-Based Learning (GBL) is the future of education. It can be defined as lessons that are competitive, and interactive, and allow the learner to have fun while gaining knowledge. Recent studies have demonstrated that GBL enhances learning performance and outcomes through affective, cognitive, and behavioral mechanisms. Students agree that their motivation and productivity would improve if learning environments were similar to games. The best GBL has three main elements – competition, engagement, and immediate rewards. GBL plays an important role in teaching by encouraging students to collaborate, communicate, and work in teams. Career and technical education teachers are preparing students for workforce readiness and gaming in the classroom sets the framework for real-world applications as students work together to achieve goals and solve problems. This presentation will teach games that can be adapted to any curriculum area. Instructors will be shown how to incorporate games into any subject matter and align learning objectives with the dynamics of the gaming process without needing any classroom technology.

Room 108 From the Students Out: Building a Secondary Teacher Education Pathway

Gina Dukes – English Instructor, Science Leadership Academy at Beeber, School District of Philadelphia
Mary Connaghan – History Instructor/Roster Chair, Science Leadership Academy at Beeber, School District of Philadelphia

Gabriel Kuriloff – Assistant Principal, Science Leadership Academy at Beeber, School District of Philadelphia

This session will explore the five-year development process of one of the first-in-the-state CTE programs in General Education (CIP 13.0101). Presenters will share the multiple iterations and pilot implementations of partnerships, concepts, strategies, and learning experiences that ultimately led to a four-year learning pathway culminating in a two-year CTE experience for students. We will also discuss the creation of the CTE teaching pathway and its development in Pennsylvania. Presenters will explain how one school leveraged student interest and local partnerships to develop the components of a career pathway and ultimately a CTE program in General Education. We will share the design of our Teaching Assistant program; our partnership with local universities for dual enrollment classes taught both on our campus and at theirs; and our curriculum partnership with a local non-profit. Audience members will develop an understanding of the course sequence, course expectations, supportive after-school and summer programming, and assessment strategies including a NOCTI exam which is under development. Finally, we will explore the role our students have played in the development of our programming and how they are currently experiencing this work including hearing from students themselves and examining some of their applied work.

Room 109 Engaging Activities with Differentiated Instruction

Lisa Pison – Instructional Technology/Web Design Instructor, Reading Muhlenberg Career and Technology Center

Emily Hilliard – Baking Instructor, Reading Muhlenberg Career and Technology Center

Students thrive when the classroom is engaging, authentic, and meeting their personalized educational needs. You can add a variety of elements using differentiated instruction (DI) strategies that will meet all learning levels and learning styles of your students. We will be demonstrating different DI strategies that will be applicable within the classroom and the lab. These versatile, student-centered strategies are perfect for all levels of teachers, including new teachers, and can be used to boost engagement and create a positive learning environment where students can not only have fun but also increase task completion.

Room 204 Career Ready?

Maria Border – Instructor, Penn State University

Career Ready? A conversation on how to holistically prepare students for careers beyond entry-level jobs. This session will educate participants about potential challenges and opportunities faced by students as they are exposed to various career pathways. Additionally, the session will provide techniques and resources to help instructors and counselors prepare students to become more aware of potential careers in their field of study. Finally, this session aims to engage participants in thoughtful and meaningful dialogue regarding career ladder versus career lattice thinking.

Room 205 Four Ways to Use Simulation and Video Software in the Classroom for the Skilled Trades

Dennis Mumau – HVAC Instructor, Indiana County Technology Center

Kenneth Midgett – Plumbing Market Director, Interplay Learning

Macy Logan – Education/Workforce Development Account Executive, Interplay Learning

This presentation will demonstrate to attendees how to use simulation and video software for the skilled trades – electrical, HVAC, and plumbing. The audience will participate in this interactive demonstration. Presenters will show teacher-led instruction for the classroom or how it can be used asynchronously by the student via an assigned platform. We will demonstrate the engaging interactive components of using simulation-type training. Attendees will learn strategies of teacher-led video-based content that can act as formative assessments, foundational learning of a topic for students, and the application to the flipped classroom. The simulations have assessments that complete the learning process of a task with a summative assessment.

Room 206 Integrating AI into the CTE Learning Environment – Curriculum Development and Ethical Concerns

Michael Stein – CTE Innovation Systems Coordinator, Berks Career and Technology Center

In this session, the presenter will discuss the intersection of Artificial Intelligence (AI) and career and technical education. The presentation will delve into how AI is revolutionizing the future of CTE – impacting students, instructors, and administrators. It will shed light on the implications of AI in shaping curriculum and teaching methods for instructors.

Room 207 Finding My CTE Voice Through World Language Projects

Melissa Moran-Johnson – Spanish Instructor, Science Leadership Academy at Beeber, School District of Philadelphia

Max Lawrence – Engineering Instructor, Science Leadership Academy at Beeber, School District of Philadelphia

Projects can serve as a valuable tool for expanding the topics in a unit beyond the confines of traditional subject matter where students can be creative and connect through culturally relevant and real-world deeper learning. Assessment can be multi-layered and can cover both surface topics and deeper roots. By sharing a collaboration between World Language and Engineering, we will explore how projects provide a space and opportunity for CTE students and their non-CTE peers to find themselves and their interests in something that excites them. Presenters will share project design and student products from a collaboration between a Spanish 2 instructor and a CTE Engineering instructor. Presenters will also highlight the multiple opportunities that might exist to expand this initial project design to connect with a wide range of CTE disciplines including culinary arts, media and design, and business and entrepreneurship.

3:15 PM – 4:15 PM CONCURRENT SESSIONS

Room 104 What Are We Going to Treasure, Tweak, and Toss?

Candace Claar – Assistant Teaching Professor, Professional Personnel Development Center, Pennsylvania State University

Patricia Leibfreid – Assistant Teaching Professor, Professional Personnel Development Center, Pennsylvania State University

There is no one-size-fits-all when it comes to teaching. Your instructional methods, content, personality, and attitude all influence your daily teaching. What instructional strategies were successful for your students? Treasure what strategies and methods were effective throughout the year. What aspects went well, but may need some tweaking? Tweaking is crucial to our teaching practice, indicating where you are and where you want to be in your instructional teaching methods. Finally, what aspects could have been more successful or were counterproductive in fulfilling your

instructional goals? What are the instructional methods or strategies that you will toss? Being reflective and intentional, figuring out what to toss or tweak, will help us to find the treasures of our practice.

Room 105 Let Us Be Your CTSO

Daniel Wagner – Culinary Instructor, Greene County Career and Technology Center
Esther Aloia – Family Consumer Sciences Instructor, Hopewell Area School District
Nadine Standley – CTE Advisor II, FCCLA Specialist, Bureau of Career and Technical Education, Pennsylvania Department of Education

Our CTSO has the highest student-member state participation ratio of all of Pennsylvania's CTSOs. Anyone using the new General Education (CIP 13.0101) program of study will find we have so much to offer your students as your CTSO. We welcome culinary arts/baking, childcare, fashion/textiles/interior design, education, and all family consumer science programs to our CTSO. Come join us to learn what our CTSO has to offer in curriculum resources for teachers and leadership opportunities for Family, Career and Community Leaders of America (FCCLA) members.

Room 106 Instructional Strategies Speed Dating

Stacie Knehr Kutz – Instructional Technology Specialist, Lehigh Career and Technical Institute
Kaitlyn Olson – Instructional Coach, Lehigh Career and Technical Institute

There are so many instructional strategies...too many it seems...that in the chaos of the school year, we often just default to old favorites. Come take some time to meet, try out, and potentially fall in love, with some new strategies you can take back to your classroom, whatever you teach! High tech, low tech, no tech...your perfect match is only a session away!

Room 107 AI in Career and Technical Education: A New Frontier

James Young – Director, Seneca Highlands Career and Technical Center
Brent Bryant – Networking and Security Instructor, Seneca Highlands Career and Technical Center

In an era where technology is rapidly evolving, the integration of Artificial Intelligence (AI) into CTE is no longer optional – it's imperative. This presentation will delve into the practical applications of AI tools, specifically ChatGPT, in enhancing career training and streamlining administrative tasks. Attendees will have a deeper appreciation for the transformative potential of AI in education and a solid understanding of how to leverage these cutting-edge technologies to benefit their respective educational institutions. Join us for this enlightening session and explore the future of CTE through the lens of AI.

Room 108 Creating Equitable Learning Environments in CTE for All Students: Application in Action

John Dowling – STEM Excellence in Engineering Leader/Automotive Technology Instructor, Chester County Technical College High School, Pennock's Bridge
Jillian Bilal – STEM Excellence in Engineering Leader/Academic Remediation Specialist, Chester County Technical College High School, Pennock's Bridge
Alvin Miller – STEM Excellence in Engineering Leader/HVAC Instructor, Chester County Technical College High School, Pennock's Bridge
Kalpesh Doshi – STEM Excellence in Engineering Leader/Computer Information Systems Instructor, Chester County Technical College High School, Pennock's Bridge

Recent evidence collected through a National Science Foundation Grant (EEC-BPE 2135080) indicates the positive role that an equitable learning environment combined with the engineering design (ED) pedagogical practice can play in STEM (including CTE). The model called NEIR-ED (Normalize, Empower, Inclusive, and Relevant Engineering Design) demonstrates how together NEIR and ED elements increase student interest, engagement, and enjoyment in secondary STEM/CTE classrooms to ensure that all students, particularly those underrepresented in STEM/CTE succeed and persist in STEM/CTE coursework and programs. In 2022-2023, 14 science and technology educators (five from CTE) participated in a yearlong program to design and develop an innovative program that integrates the high-quality pedagogy of the engineering design method with four ELE indicators to improve academic and personal outcomes for all students, including those traditionally underrepresented in CTE programs. Eleven of the teachers became the teacher leaders for the 2023-2024 professional development experience welcoming 15 new STEM/CTE teachers as prospective teacher leaders of this system change model. In this presentation, you will hear from the STEM/CTE teachers about this new model and how their foundational practices reshaped their thinking in the classroom and across their schools to improve their student's academic and social outcomes.

Room 109 3-D Look at the IEP

Donald Crane – Advertising and Commercial Arts Instructor, Central Pennsylvania Institute of Science and Technology

An Individualized Education Program (IEP) is a legal document developed for each public school child who needs special education services. IEP creation is through a team of the learner's parent(s) and district personnel knowledgeable about the child's needs. A successful IEP requires a three-dimensional view – from the parents and learner, from the teacher, and the school's administration and support personnel. The process can be scary, daunting, and unmanageable if parents, educators, or administrators do not understand the benefits and access granted to everyone involved. The school's open inclusion plan actively creates a learning culture that benefits the entire school as it prepares all learners for the next steps after their secondary education. The presenter is the parent of sons who have IEPs. He advocates for experiential learning on all levels. This session will actively examine and strategize proactive approaches in the IEP process and implementation. Participants should expect to review the critical points of an IEP and participate in creating key strategies to implement a 3-D view of their own experiences.

Room 204 Are You a New CTE Director?

Chris Davis – CTE Advisor II, Bureau of Career and Technical Education, Pennsylvania Department of Education

Are you new to the career and technical education field? This session will share information about many of the different requirements and having community and industry input is imperative to program success. The CTC's Local Advisory Committee (LAC) and Occupational Advisory Committee (OAC) are the foundation of the school's programming. While they appear to serve the same purpose, these committees bring their own perspective, each serving different needs. In this session, learn the differences between the two committees and how they are best leveraged to provide opportunities and the best programming for your students.

Room 205 Training the Future Green Building Workforce

Michael McMonigal – Supervisor of Adult and Continuing Education Supervisor, Mifflin Academy of Science and Technology

Stefanie Shipe – Grant Manager, Clean Energy Center, Penn College

Diana McCarthy-Bercury – Principal, Earth Forward Group, LLC

As the nation begins redesigning our buildings with energy and environment in mind, CTCs play a critical role in the future of construction. CTCs are well-positioned to train and deploy the next-generation workforce to accomplish performance goals. Sustainable construction is an important career pathway that provides access to good-paying jobs and inspires future leaders. During this session, presenters will provide case studies showing how CTCs in Connecticut are evolving their curriculum to embrace technology and adopt science principles. Students in these schools emerge with new skills and industry-required credentials for immediate employment. Attendees of this session will learn inclusive, sustainable, and accessible ways to connect CTE programs to clean energy careers.

Room 206 Everything the Teacher Needs to Know Can Be Learned in Kindergarten

John Fike – Diesel Technology Instructor, Central Pennsylvania Institute for Science and Technology

MaryAnn Volders – President, Central Pennsylvania Institute of Science and Technology

During the COVID experience, the presenter realized that he would have to find unique strategies and activities to engage students in learning. Surprisingly, he found ways to completely change the culture of learning in his lab and theory classes by focusing on how kindergarten teachers teach. After researching how teachers at all levels and in all subjects were engaging students, he came to recognize how the skills and techniques employed by kindergarten teachers fit best with CTE instructional needs. From his reading, talking with kindergarten teachers, and watching countless videos, the presenter has completely transformed his teaching method. His classroom and his lab now reflect the strategies employed by kindergarten teachers. The presenters will explain and show how he has evolved into a strongly engaging teacher who involves students in a true culture of learning when they are in his Diesel program.

Room 207 Pre-apprenticeship and Apprenticeship Pathways

Leon Poeske – Career and Technical Distinguished School Leader (CTDSL), Pennsylvania Department of Education

Gerald Witmer – Career and Technical Distinguished School Leader (CTDSL), Pennsylvania Department of Education

Pre-apprenticeship and apprenticeship pathways are currently being developed by schools and workforce partners to engage students in attaining industry-relevant skills leading them to family-thriving wage careers. Join Career and Technical Distinguished School Leaders (CTDSLs) in a collective conversation to influence the future priorities, policies, programs, and funding strategies of the Bureau of Career and Technical Education. Audience participation will drive our discussion. Attend this session to share your ideas and learn more about this current topic.

Dinner On Your Own

7:15 AM – 8:30 AM **BREAKFAST**

Presidents Hall Chef's Pancake Breakfast Buffet

8:45 AM – 9:45 AM **CONCURRENT SESSIONS**

Room 104 Streamlining and Improving the Admissions/Interview Process

Justin Sholes – Principal, Franklin County Career and Technology Center
Tim Byers – Instructional Support Team Instructor, Franklin County Career and Technology Center
Lori Ebersole – Recruitment Coordinator, Franklin County Career and Technology Center

We have been utilizing Embark for our admissions and interview process. The platform allows all stakeholders from our sending schools to access their applicants and enter demographic and performance data. It further allows schools to see their lists updated as changes are made. Email notifications for each group of students are quick and easy.

Room 106 Canvas LMS and Program Task Lists

Lauren Hopkins – Digital Media Arts Instructor, Clearfield County Career and Technology Center
Tiffany Cover – Principal/Assistant Director, Clearfield County Career and Technology Center

This session will explore the way teachers can use the Canvas Learning Management System (LMS) to link assignments directly to his/her program's task list. This allows teachers, students, and parents to see the growth throughout the year on individual tasks and how individual assignment grades directly impact the proficiency of each task on the task list.

Room 107 AI, VR, and Digital Apprenticeships in Career and Technical Education

Anthony Lepri – Logistics/Warehouse Management Instructor, Cumberland Perry AVTS
Dennis Rodkey – Computer Systems Networking Instructor, Carlisle High School
Matthew Bornak – Education Program Specialist, Professional Personnel Development Center, Pennsylvania State University

As the rapid advancement of technology transforms the workforce, CTE must keep pace with these changes. Learn, interactively, how recent advances in technology are enhancing teaching and learning, improving student outcomes, and bridging the skills gaps between education and industry with AI-personalized learning, intelligent tutoring systems, real-time feedback, data analytics, predictive modeling, virtual and augmented reality simulations, and online experiential learning in CTE programs. Discover how AI and VR are being incorporated into CTE programs of study and supporting digital apprenticeships – with a special guest, Pepper the AI Dog!

Room 108 Communicate to Elevate: Mastering the NOW Model for Transformative Interactions

Timothy Buchanan – Author, Speaker, and Trainer



Discover the transformative power of the NOW Communication Model, meticulously crafted for educators and leaders like you. This session delves into the unique essence of this model, which emphasizes the listener's needs, ensuring your message is always timely, relevant, and impactful. As we unfold the layers of the NOW Model, you'll gain insights on applying it to four pivotal needs of learners: starting with fostering self-awareness through a style rooted in discovery, ensuring safety by setting clear boundaries, guiding individuals towards positive pathways in both life and work,

and finally, equipping them with essential skills to sustain their progress. Join us, and embark on a journey filled with actionable insights, ensuring every interaction you have aids in positively changing lives.

Room 109 NOCTI Information on the Web – Where it is and How to Find it

Randi VanHemert – Client Relations Coordinator, NOCTI
Lori Theofilis – Project Assistant, Education Resource Center, Penn State Greater Allegheny

NOCTI and the Pennsylvania Department of Education have worked together for many years to support the Student Occupational Competency Testing Program. As we move forward with continued support of CTE student success, this session will focus on the NOCTI Teacher Resource Center and other information relevant to teachers. This session will explore two websites that include the NOCTI information for teachers related to Pennsylvania's testing program. We'll also catch you up on new initiatives!

10:00 AM – 11:00 AM **GENERAL SESSION**

Presidents Hall CLOSING REMARKS

Judd Pittman – Director, Bureau of Career and Technical Education
Pennsylvania Department of Education

CLOSING SPEAKER



Timothy Buchanan – Author, Speaker, and Trainer

As an author, speaker, and trainer, Timothy Buchanan equips and inspires others to achieve personal and organizational excellence through critical thinking. Previously, he was an award-winning graduate adjunct professor teaching leadership and performance management for 15 years. Tim helped his students succeed in their careers through his teaching, curriculum development, and mentoring. Many of his students gained so much from Timothy's teaching that they enrolled in every class he taught.

Today, Timothy extends his award-winning teaching style to educators and professionals alike. His approach is characterized by an energetic, practical, and enjoyable learning experience. His talent for creating practical critical thinking models for personal excellence resonates with participants, benefiting all aspects of their lives. Timothy's teaching has the power to propel you forward in your personal life, work, and relationships.

ANNOUNCEMENTS

CONFERENCE EVALUATION • PRIZES • ADJOURNMENT

Prizes include resource materials from exhibitors. YOU MUST BE PRESENT TO WIN.

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Allegheny Educational Systems, Inc. 320 East Third Avenue Tarentum, PA 15084	Brad Chandler Kyle Lavieri	(724) 230-2400 bchandler@alleghenyedusys.com
Bureau of Career and Technical Education Pennsylvania Department of Education 333 Market Street - 11th Floor Harrisburg, PA 17126	Monique Burton	(717) 346-3188 miburton@pa.gov
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TYRONE HIGH SCHOOL STUDENT DEMONSTRATION

BLOOD PRESSURE SCREENING – THURSDAY 9:00 AM – 2:00 PM

Christie Taylor – Health Occupations Instructor

Madelyn Rockwell – President, HOSA
Hunter Hoffman – Vice President, HOSA

Hailey Bickel – Treasurer, HOSA
Mercedes Miller – Secretary, HOSA
Mariyah Hunter – Historian, HOSA

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MEETING ROOMS

The Penn Stater Hotel and Conference Center

