

NCPN Presentations for Main Conference

Thursday, Oct. 26

11:00-11:45a.m.

107

FEATURED

Business Engagement in Education: From Human Resources Strategy to Public Policies

IMCA, the Dominican Republic Caterpillar Dealer, have been evolving its human resources and corporate social responsibility programs over the last ten years by a shared value strategy that positions the company as the leader on its market while making substantial contributions to the country educational system. **Pedro Esteva**, President, Implementos y Maquinarias, IMCA, Santo Domingo, Dominican Republic

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FEATURED

Learn to Earn (L2E): Building the Bridge Between Play and Work

The presenter will discuss activities and engagements for secondary school students (6th–12th grades) that give exposure to STEM activities, earn college scholarship “credits,” and encourage students to pursue technical careers. Program attributes include increasing STEM participation, building organizational STEM capacity, and providing a financial support structure for students to attend college. The presentation will cover concept, financial structure, and supporting software. **Stanley Shoun**, Ranken Technical College, St. Louis, MO

72

Take the Guesswork Out of the ATB and Title IV Eligibility Equation

Attendees will learn about how the recent Career Pathways criteria will impact their schools’ ATB programs, changes in Career Pathways criteria since 2015, resources available to help decipher the criteria more clearly, and the next steps for schools seeking documentation to support Career Pathways eligibility. **Chris Young**, Wonderlic, Inc., Vernon Hills, IL; **Debbie Mills**, NCPN, Waco, TX

99

If There’s No Change at the Classroom Level, There’s No Change

Unless we make an impact at the classroom level, there will be no sustained change in schools from implementing Career Pathways. The purpose of this session is to discuss how Career Pathways can have an impact on how and what we teach in the classroom. **Sandra Harwell**, CORD, Lakeland, FL

78

Business-Driven Partnerships to Change Perceptions and Build a Pipeline

Attendees can expect to learn how Virginia Career Pathways for Individuals with Disabilities (CPID) formed and nurtured partnerships to promote industry sector strategies and decrease the “interest gap” in modern manufacturing. Attendees will learn how VA CPID increased access for individuals with disabilities by using a business-focused model through strong partnerships with the Virginia Manufacturing Association, our Wilson Workforce Rehabilitation Center, and WIOA partners. Takeaways will include knowledge of how to use business partnerships to drive and grow access for IWD to successful career pathways. **Joseph Ashley, Emily West, Kate Kaegi**, Virginia Department of Rehabilitative Services, Richmond, VA; **Tish Harris**, Virginia Department for the Blind and Vision Impaired, Richmond, VA; **Vanessa Rasberger**, Virginia Manufacturers Association, Richmond, VA

65

FAME and Northwood University: Building a Successful and Sustaining Partnership

Northwood University and Toyota Kentucky have a longstanding partnership in which workforce and education work together. Participants will gain knowledge of what has made that partnership successful and why it was chosen to partner with FAME as the business educator provider for the FAME career pathway model. **Carol Crawford**, Northwood University, Georgetown, KY; **Dennis Parker**, Toyota North America Support Center, Georgetown, KY; **James Croan**, Northwood University, Louisville, KY

40

How Technical Colleges Support College and Career Readiness

Technical colleges are a necessary partner in effective academic and career planning. Northcentral Technical College will share best practices used to collaborate with K–12 partners to support college and career readiness initiatives. Learn about events, workshops, marketing materials, and planning strategies, and how to enhance relationships with K–12 partners. Both technical college and K–12 staff will benefit from joining in this discussion. **Sarah Dillon, Tracy Ravn, Yang Yee Lor**, Northcentral Technical College, Wausau, WI

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Classroom Lessons Combining High School Math with Construction or Entrepreneurship

Imagine running a real business in high school and doing the algebra necessary to make it successful or building for a nonprofit with geometry students? Both are realities at our high school. Attendees will experience business and construction activities they can take back to use in their classrooms. **Tom Moore**, Thompson Schools, Loveland, CO

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ADULT

Accelerating Opportunity: Dual Credit Without Dual Time

Adults who lack high school credentials don't need to wait to get started on postsecondary credentials. Attendees will learn how Kentucky's IET model connects local adult education programs with community and technical college systems, creating opportunities for dual enrollment. **Natalie Cummins, Janet Slayden, Cody Davidson**, Kentucky Adult Education, Frankfort, KY

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NSF: FLATE

The Toothpick Factory (TPC) Is Hiring! A Soft Skills Simulation Game

Employers always need qualified employees with strong soft skills. FLATE, the Florida Advanced Technological Education Center, designed The Toothpick Factory (TPF)[®] in response to this industry need. During this hands-on session, participants will challenge their teamwork skills through a series of “demands” put on their teams.

Marilyn Barger, Florida Advanced Technological Education Center (FLATE), Tampa, FL

45

Program Alignment: Increasing Student Matriculation to Postsecondary Technical Programs

Attendees will learn about Idaho’s statewide approach to alignment of secondary and postsecondary CTE programs. The alignment process, which is in its fourth year, is designed to improve student learning outcomes, expand student choices, and increase the success rate of transitions from secondary to postsecondary technical programs. **Steve Rayborn**, **Amy Lorenzo**, Idaho Division of Career and Technical Education, Boise, ID

55

Career Exploration Resources for K–8 and Beyond

How can career exploration activities be effective in grades K–8? This presentation will provide numerous resources that staff members can implement with parents, students, and business representatives. Attendees will be given access to relevant resources via a live binder. **Beth Fogelsong**, Tolles Career & Technical Center, Plain City, OH; **Christine Boucher**, Eastland-Fairfield Career and Technical School, Groveport, OH

95

Industry-Valued Credentials: Pathways from Education into the Workforce

Certifications and licenses give students a significant advantage in securing employment, whether in K–12, community college, adult education, or noncredit. This session will examine how California is aligning industry-valued credentials to several industry sectors, creating structures for integrating credentials into programs of study and strategies for data tracking. **Amy Kaufman**, Orange County Department of Education, Costa Mesa, CA

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Evaluating Collaborative Problem-solving Skills with Electronics Simulations

A realistic electric circuit simulation is used to 1) detail collaborative solutions to the problem, 2) collect detailed log data of every action and communication, and 3) analyze and interpret the voluminous data to identify the effects of CPS on teaching and learning successful problem-solving strategies. Field testing begins this year! **John Chamberlain**, CORD, Waco, TX

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1:15-2:00pm

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Career Pathways for Individuals with Disabilities: Five-Year Projects in Four States

Presenters from Kentucky, Nebraska, Virginia, and Georgia will describe their innovative grant projects aimed at increasing the participation rates of individuals with disabilities in career pathways. Learn about the different approaches each state has taken to dramatically expand exposure, credentialing, and placement in high-growth, high-demand jobs for this population. **Helga Gilbert**, Kentucky Office for the Blind, Frankfort, KY; **Shelly Kraft**, Georgia Vocational Rehabilitation Agency, Atlanta, GA; **Janet Drudik**, Nebraska Vocational Rehabilitation, Juiata, NE; **Emily West**, Department of Aging and Rehabilitative Services, Richmond, VA

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ADULT

180° Reverse Job Fair: Providing Employers Access to Qualified Job Seekers

Discover the compelling approach of the reverse job fair. Learn the steps required to create a popular event with proven data and success numbers. Enhance your program design while strengthening relationships with employers by using needs assessment and implementing job readiness programs. Participants will walk away with a toolkit that will help them create their own reverse job fair programs. The reverse job fair is an excellent choice for all job seekers, youth and adult. **Gena Leisten**, Dynamic Works Institute, Waukesha, WI; **Eunice Almaguer**, Workforce Solutions, Borderplex, El Paso, TX

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The Centers of Excellence Model: Impact and Implementation

The sector-based Centers of Excellence model in Washington State has helped land approximately \$75,000,000 supporting workforce education, including two DOL TAACCCT consortium grants. The model has brought together business, industry, labor, and the state's education systems. We will cover the model and look and its implementation in Washington State. **Anthony Valterra**, Center of Excellence for Renewable Energy, Centralia, WA

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No More Spray and Pray: Creating an Ideal Model for Authentic Project-Based Learning Professional Development for Career Pathways

Attendees will learn how schools and districts across the nation have changed professional development from a one-shot event to an ongoing process. Participants will learn how the schools support teachers in the implementation of Authentic Project-based Learning units of study in CTE classrooms to meet college and career readiness standards. **Scott Warren**, Southern Regional Education Board, Atlanta, GA

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Building Business Leaders: PBL + Accelerated Curriculum = College Credit and More

This session will focus on a program designed to enable high school graduates to arrive at college with college credits, stand-out speaking skills, and the know-how to take the lead in their business courses. High School of Business is an intellectually demanding program offered in Missouri and throughout the United States. Learn what makes it work and take away ideas for your program. **Lisa Berkey**, MBA Research and Curriculum Center, Columbus, OH

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Using Registered Youth Apprenticeships to Create a Sustainable Talent Pipeline and Strengthen Business Relationships

Attendees will learn how to establish Registered Youth Apprenticeships at the high school level. Discover how Missouri Career Centers are establishing talent pipelines with employers at no extra cost to the school. Learn how employers can increase their support and commitment to your career and technical programs through Registered Youth Apprenticeships. Registered Youth Apprenticeships can validate program curriculum alignment with industry and set students on a clear path to career success. **Oscar Carter**, Missouri Department of Elementary and Secondary Education, Jefferson City, MO; **Mike Smith**, US Department of Labor–Missouri Office of Apprenticeship, Springfield, MO; **Keith Davis**, Lebanon Public Schools, Lebanon, MO

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Business Partnership Transforming Education Through Problem-Based Case Learning

Learn how to involve local businesses in building an experiential learning program for your students. This program was created out of a need to improve student engagement in my course. Give students a vehicle for applying knowledge, theory, and skills in the real world while still under your guidance. **Eloy Garza**, PSJA Southwest Early College High School, Pharr, TX

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TECHNOLOGY

Gen X, Y, M, and Now G? How to Understand and Teach the Gamer Generation

Video games have become ubiquitous with smartphones shaping how our kids interact with content. So how do we teach the gamer generation? They're addicted to awards, badges, Easter eggs, killstreaks, 3 stars, and trophies. In this session we will discuss the ramifications of the gaming craze in education and get you closer to your students by helping you understand why games are addicting. Remediation, achievements, and teamwork are core concepts in gamification and can be brought into the classroom to make it as addicting as the games students play. **Nai Wang**, KP Education Systems, Phoenix, AZ

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Premier College and Career Academies

The Premier College and Career Academies address the need to fill the skills gap by providing trained workers who have postsecondary credentials and degrees that are aligned with the needs of employers. These academies give high school students a head start on their careers and offer them college completion at a critical time paired with high school graduation. Learn how we collaborated with local industry and K–12 partners to offer students a program that allows for employment opportunities in high-wage, high-demand jobs. **Rene Hankins**, **Rodney Dowell**, Ivy Tech Community College, Terre Haute, IN

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Raising Awareness of Industry-Driven Career Pathways in Colorado

Defining, aligning, and constructing industry-driven career pathways are challenging tasks. And then how do you also ensure students and adults know the career pathways exist? Learn about Colorado's career pathways initiatives and a responsive, dynamic, data-driven system that provides users a "walk" through career pathways. **Thomas Hartman**, Colorado Workforce Development Council, Denver, CO; **Don Phillips**, XAP Corporation, Culver City, CA

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Infusing Vital Employability Skills into Advanced Manufacturing and Cybersecurity Programs

Employability skills must be more than an afterthought in our courses. The Necessary Skills Now project paired advanced manufacturing and cybersecurity teachers and employers for the purpose of jointly developing pilot projects that infuse vital employability skills into existing courses. Pilot testing is under way, and we have preliminary results to report. Your schools and businesses are invited to participate in the next steps! **John Chamberlain**, **Hope Cotner**, CORD, Waco, TX; **John Sands**, CSSIA, Palos Hills, IL; **Marilyn Barger**, FLATE, Tampa, FL

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Empowering Health Science Students Through Industry Credentials

Your students are the future of healthcare. As an educator, you provide them with a solid educational foundation to help position them for successful careers. By giving them opportunities to earn industry-recognized credentials, you are giving them access to hands-on experiences and postsecondary attainment opportunities and empowering them to succeed in high-wage, high-demand professions. **Laura Flynn**, National Healthcareer Association, Leawood, KS

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ADULT

Partnering to Bridge the Gaps

For nearly two years, City Colleges of Chicago and community organizations have partnered to create an aligned citywide pathway for low-skilled adults. This presentation will feature the Career Foundations and bridge courses that launch students along the pathway and the partnerships created across systems and organizations. **Sarah Labadie**, Women Employed, Chicago, IL

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Getting and Keeping Community Colleges at the Table

This session will focus on challenges associated with aligning K–12 and community college pathways based on an implementation research study conducted in California. Participants will brainstorm strategies that can help nurture deeper and more sustainable pathway partnerships with two-year colleges. **Valerie Lundy-Wagner**, Jobs for the Future, Oakland, CA

12

Teacher TechConnect: Keeping Pace with Innovation

Attendees will see how a model of conference training sessions can be set up and executed for more than a one-time event and become ongoing training that can expand to more schools. They will learn how to recruit, set up, and develop a tech teacher networking event at their school district. **Jeanette Crow**, Pike High School Youth CareerConnect Program, Indianapolis, IN; **Diana Nolting**, Bluelock, Indianapolis, IN

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Building a Regional Manufacturing Career Path System: Social Inclusion and Institutional Innovation

Learn about a program prototype in Chicago that has created a framework for the expansion of a Career Pathway system in Chicago that meets the needs of manufacturers; offers students a foundation to pursue education, training, and employment; and serves as a means to improve our communities. **Erica Stale Swinney**, Manufacturing Renaissance, Chicago, IL

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Assessing Program Quality: An Incremental Approach to Data-Driven Decisions

Representatives of the Idaho Division of Career and Technical Education will share lessons learned in building a comprehensive framework for assessing the quality of secondary CTE programs. Attendees will learn the importance of stakeholder input in the development process, measures of program quality, and potential cost-saving measures for states that are ramping up their roles in oversight and accountability. **Amy Lorenzo**, **Steve Rayborn**, Idaho Division of Career and Technical Education, Boise, ID

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NSF: CTC

Tools and Strategies for Preparing Students for High-Demand Jobs Through Business Leadership

The National Convergence Technology Center (CTC) developed a successful model for engaging business and industry leaders and using their expertise to co-lead a program and align curriculum with workforce needs. Learn best practices and key strategies and receive free tools and resources so you can deploy this model at your school. **Ann Beheler**, National Convergence Technology Center (CTC), Frisco, TX

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Denver Public Schools' CareerResidency Program - Direct Routes to Career and College

The CareerResidency is a ground-breaking new program in Denver Public Schools that combines high school classroom learning with on-the-job experiences and higher education. Students earn money, credentials, work experience, and college credit and degrees through this apprenticeship program. We'll discuss program structures and partnerships, including its implementation, growth, and development. **Steven Santana**, Denver Public Schools, Denver, CO

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Need a Career Readiness Model? Come See Ours

Tulsa Technology Center has implemented a new career readiness model called PATH (Professional, Academic and Technical Honor) for the 2016–2017 school year. Industry partners have expressed the need for workers who have not only good technical skills but also good soft skills. Our model has professional, academic, and technical requirements that students must meet to show they are willing to go above and beyond what is expected of them in their tech programs. This model addresses the importance of the student's professional profile, attendance, grades, industry certifications, and professionalism. **Johni Edsel**, Tulsa Technology Center, Tulsa, OK

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ADULT

MoStart at State Tech Focuses on Training to Reduce Recidivism

State Technical College of Missouri faculty and staff members, the Missouri Department of Corrections reentry coordinator, and the director of the Central Workforce Investment Board have created a strong partnership supported by the MoStart Tech-Hire grant. This initiative will focus on obtaining meaningful employment, thus reducing recidivism. The presenters will share how this partnership was initiated and grew into a viable opportunity for those with barriers, including offenders. An incredible amount of time and planning has gone into this collaboration using "out of the box" thinking and strong action, along with funding from the Missouri Strategic Training and Re-Tooling grant. **Nancy Wiley**, **Janet Kremer**, State Technical College of Missouri, Linn, MO; **Ken Chapman**, Missouri Department of Corrections, Jefferson City, MO; **Alexandra Blackwell**, Central Workforce Investment Board, Rolla, MO

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ADULT

Stacked Credentials Lead to Attainment and Jobs

This presentation will highlight two TAACCCT consortium grants. Each consortium has pursued strategies for accelerating skill development and credential attainment. The panel will present evaluation findings, a system-level perspective from Wisconsin's efforts to scale career pathways, and an institutional perspective from Housatonic Community College's linking of non-credit and credit-based programs. **Wendy Sedlak**, Equal Measure, Philadelphia, PA; **Derek Price**, DVP-Praxis Ltd, Indianapolis, IN; **Scott DuBenske**, Wisconsin Technical College System, Madison, WI; **Alese Mulvihill**, Housatonic County Community College, Bridgeport, CT

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Roadmap for Intrusively Engaging Students to Program Completion and Beyond

The presentation will cover a workflow-designed intrusive advising roadmap, along with related forms and documents. As a result of accelerated and collaborative technical training, students are better prepared for program completion and job placement. **Deb Elder, Gretchen Sherk, Cordell Black, Kayla Harrity, Mindi Schwartz**, Johnson County Community College, Overland Park, KS

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Preparing Students for Pathways

We have prepared career pathways for students, but have we prepared students for career pathways? All students should be prepared to identify a career pathway, and to do this, they must have consistent, strategic opportunities to develop career awareness and engage in meaningful career exploration. This session will showcase Ohio's Career Connections work and the resources available to implement meaningful career advising for all students. **Tisha Lewis, Kayla Mack, Cassandra Palsgrove**, Ohio Department of Education, Columbus, OH

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Career Pathway Self-Assessment: A Tool You Can't Live Without

Learn about Wisconsin's Career Pathway Self-Assessment Tool (CP Tool) and how it supports Career Pathway creation and enhancement at the college and program level. At this session you will receive the CP Tool, learn how Wisconsin is using the CP Tool, and consider how your institution might use/modify/replicate and easily adopt the CP Tool. **Cara Bowman**, Waukesha County Technical College, Pewaukee, WI and **Ann Westrich**, Wisconsin Technical College System Office, Madison, WI

THURSDAY, October 26

3:30-4:15pm

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FEATURED

Energy Pathway from Vision to Thriving: Georgia Industry and Education Partners Collaborate

Learn how the pathway was launched, the planning process, the development of standards and identifying curriculum. Session to include how to align the needs of strategic industry partners with secondary and post-secondary education partner resources. Also included will be examples of program funding and industry led teacher training. **Diane McClearen**, Oglethorpe Power Corporation, Tucker, GA; **Suzanne Powell**, Electric Cities of Georgia, Atlanta, GA

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Leading Career Pathways in the Midst of Political Upheaval

America is experiencing dramatic political changes at the national and state levels. During this session, Hans Meeder, author of *The Power and Promise of Pathways* and former U.S. Department of Education official, will update attendees on important policy and budget developments and share strategies for building political sustainability for pathways. **Hans Meeder**, National Center for College and Career Transitions, Columbia, MD

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CTE: A Path Not a Destination

This session will focus on our district's approach to alignment of workplace needs and employability skills with middle and high school pathway programs. Topics will include building a thriving advisory board, apprenticeships, strategic planning meetings, networking events for students and local businesses, and alignment of students with appropriate postsecondary options. **Jillian Berg, Lucille Flynn**, Broward County Public Schools CTACE, Ft. Lauderdale, FL

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ADULT

Kentucky IET Program Design Using Flow Charts and Process Maps

Attendees will learn how to design an integrated education and training model using visual flow charts and process maps. The visuals will also show embedded check points that measure performance and outcomes using program data. Attendees will be given access to a QR code connecting them to digital resources from Kentucky Adult Education (KYAE). **Janet Slayden, Natalie Cummins, Cody Davidson**, Kentucky Adult Education, Frankfort, KY

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Preparing Teens to Serve: How to Build a Successful Law Enforcement Academy

Reseda High School's Police Academy began in 1998 to bridge the gap between police and teens during the "post Rodney King era." With police officers as teachers, an honors-level curriculum, and rigorous physical training, this school has all the components necessary to build community relationships and prepare teens to serve. Let us help you! **Alise Cayen**, Reseda High School Police Academy, Reseda, CA; **Melanie Welsh**, Reseda High School, Reseda, CA

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Embedding Employer-Validated Soft Skills Training, Assessment, and Credentials in Career Pathway Programs

Attendees will learn the findings from SIUE's participation in the Wonderlic Soft Skills Training Bootcamp Scholarship for students in their TAACCCT grant workforce program. Quantitative and qualitative data will be shared, along with best practices for programs that would benefit from including soft skills in their curriculum. **Amanda Opperman**, Wonderlic, Inc., Vernon Hills, IL; **Courtney Breckenridge**, Southern Illinois University, Edwardsville, IL

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Teachers as Externs: Discovering a Context for Learning

Teacher externships enable teachers to connect academic knowledge to real-world business and industry applications. Presenters will provide an overview of how educator teams participate in professional development to integrate workplace skills into classroom curriculum. Educators use their experience to increase student awareness of careers in high-demand sectors. **Steve Bryant, Roberta Carson, Ann Starlin-Horner**, Missouri Department of Elementary and Secondary Education, Jefferson City, MO

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TECHNOLOGY

Tips, Tricks, and Resources for Flipping Instruction

Although “flipped instruction” is one of the new buzzwords in education, you may not realize that it creates high-level student interaction inside and outside the classroom. This session will include tips and tricks from experienced “flippers” as well as technology tools that can help educators flip their instruction. **Jeannie Justice**, Morehead State University, Morehead, KY

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NSF ATE

Maritime Logistics and Industry Return on Investment for Student Internships and Registered Apprenticeship

Maritime logistics plays a vital role in the coordination of the global supply chain. Through this example, participants will learn how to engage industry partners to help create effective career pathways and technical education programs. The presenter will also highlight the benefits of registered apprenticeship and student internships for students and employers. **Barbara Murray**, SMART Center, Virginia Beach, VA

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Dual Enrollment, Dual Credit, and Programs of Study from a Postsecondary Perspective

Attendees will be able to compare and contrast dual enrollment and dual credit courses, discuss why and how accreditation helps guide the decision-making process for each, and the importance of course sequencing within the scope of Programs of Study. **Michael Tinsley**, Tennessee Board of Regents, Nashville, TN

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Using Business Partnerships to Create a Strong Foundation for Pathway Development

The presenter will share how Union Grove High School implemented a business expo and teacher externships and how these strategies provide educational opportunities for all stakeholders. Attendees will gain knowledge of best practices in leveraging industry partnerships and using special events to convey the importance of pathway development. **Stacey Duchrow**, Milwaukee 7 Economic Development Partnership, Milwaukee, WI

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Mind the GAP: How Can Competency-Based Youth Apprenticeships Connect Education and Industry?

Attendees will explore how trends in competency-based education can drive a project-based approach to traditional internships and apprenticeships and bridge the gap that often exists between educational theory and the practical needs of industry employers. Discover how GPS Education Partners is building competency-based youth apprenticeship pathways with Wisconsin high schools, technical colleges, and manufacturers.

Andy Hepburn, Amanda Daniels, GPS Education Partners, Brookfield, WI

FRIDAY, October 27

8:15-9:00

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CTE College Credit: Strengthening Postsecondary Pathways for Students

Nevada CTE educational partners have reexamined the CTE framework and developed a statewide system. Learn how the College of Southern Nevada made the transition to statewide articulation agreements; and hear about their efforts in student outreach and program marketing initiatives. Attendees will take away best practices implemented in the statewide initiative to strengthen postsecondary pathways. **Leticia Wells**, College of Southern Nevada, Henderson NV

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Building Industry Partnerships with Wine and Hamburgers

Successful partnerships with industry are the foundation for successful pathways. We will discuss how our industry partnership has helped us to develop and enhance our programs and has led to an industry-directed pre-internship program and ultimately paid internships for students. **Rebecca Bettencourt**, E. & J. Gallo Winery, Modesto, CA; **Jeff Albritton**, Modesto City Schools, Modesto, CA

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Leading Learning Project: A Professional Learning Model for Early Educators

The presenters will discuss learning structures and strategies for working with administrators to lead learning in educational settings. Professional development models for managers often focus on the development of management skills, e.g., how to motivate staff, create and manage budgets, and recruit and retain teachers. This project focuses on the development of curriculum and learning with young children through working with administrators and managers. The participants will walk away from the presentation with provocations and strategies. **Juana Reyes**, Educational Consultant, Chicago, IL; **Karen Haigh**, Columbia College, Chicago, IL; **Christie Colunga**, Paradise Community College, Phoenix, AZ

103 (Continued at 9:15am)

Career Pathing Students to Success!

Attendees will learn from and engage with career and workforce development representatives from a leading secondary school CTE center, school counseling office, and State Department of Education. Understand how collaborating through multiple efforts is today's 'silver bullet' in appropriately career pathing students towards success! This back-to-back session will consist of four simultaneous Conversation Cafes. **Douglas Cullen, Jennifer Haskins, Kristy Butler**, Pinkerton Academy and CTE Region 17, Derry, NH; **Jennifer Kiley**, New Hampshire Department of Education, Concord, NH

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Reaching At-Risk Students with an Unorthodox Group Math Fluency Model

It's not about *me*. It's about *us*. In education we focus heavily on individual achievement, but if we look back to our ancestors living on the plains of the Serengeti, we see that survival has always been about teamwork. Learn how students who started out counting on their fingers were able to work dozens of math problems in their heads in less than a month. **Nai Wang**, KP Education Systems, Phoenix, AZ

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Designing and Scaling College and Career Pathways for Opportunity Youth

Attendees will learn how SIATech, a network of fully accredited free public charter high schools focused on re-engaging Opportunity Youth ages 16–24, is designing innovative career and college pathways for students in alternative settings. **Laurie Pianka, Linda Dawson, Yolanda Tapia**, SIATech, Oceanside, CA

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Career Readiness: Preparing a Pathway for Student Success

Ivy Tech Community College Southeast has created an invaluable tool known as the Career Ready Endorsement. This Endorsement makes students more marketable to potential employers and guides students to successful career placement. It focuses on five areas: building personal awareness, academics, career development, community mindedness, and professional performance. **Paula Clark**, Ivy Tech Community College, Southeast Region, Madison, IN; **Rachel Cooper**, Ivy Tech Community College, Lawrenceburg, IN; **Sara Dunlap**, Ivy Tech Community College, Columbus, IN

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ADULT

Kentucky Adult Education: Instructional Resources to Help Students Get and Keep a Job

Kentucky has over 350,000 adults who lack a high school diploma or GED®. The state has created new approaches to helping those adults get and keep jobs. Learn about the resources that Kentucky is using to integrate workforce preparation with academic instruction in local programs, resources that can be adapted and adopted by any state. **Sharon Johnston, Lori Looney**, Kentucky Adult Education, Frankfort, KY

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TECHNOLOGY

A Virtual Materials Testing Software Tool

Attendees will experience a virtual materials testing suite of modules that allow students to experience tensile, impact, and hardness testing of materials without requiring access to expensive equipment. Participants will take home user guides and software access to incorporate into their own classes immediately and at no cost.

Brian Seely, Bloomsburg University, Bloomsburg, PA

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Building and Sustaining a Strong Pathway Founded on High School to College Collaboration

Presenters will discuss the successes and failures of a partnership with Porterville College and share tips on getting started. We will share the different options in college credit and provide a course sequence and best practices for teachers and professors working together. Attendees will discuss the Golden Circle and begin an action plan for their programs. **Krista Herrera, Danielle Aguilar**, Summit Charter Collegiate Academy, Porterville, CA

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Developing Pathways Through Dual Credit and Career and Technical Education Programs

Attendees will learn how aligning dual credit and CTE programs, while simultaneously implementing the National Alliance of Concurrent Enrollment Partnerships' quality standards, can create successful partnerships. The collaboration and focus on quality ensures rigor, alignment, and outcomes that are sought by employers.

Kent Scheffel, Yvette McLemore, Melissa Batchelor, Lewis and Clark Community College, Godfrey, IL

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How to Avoid the Five Biggest Pitfalls of Career Development

In today's pathways-centered schools, effective career development is more important than ever. Hans Meeder, author of *The Power and Promise of Pathways*, will identify the five biggest pitfalls of career development and share action steps and examples of how you can overcome them. **Hans Meeder**, National Center for College and Career Transitions, Columbia, MD

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Creating Logistics and Welding Certificate Programs with Embedded National Industry Credentials

Attendees will hear about St. Charles Community College's journey from development to implementation of two technical career programs that align with industry needs in our region. Attendees will be given a roadmap on how we built the career pathway on our journey to success. **Amanda Sizemore**, St. Charles Community College, St. Peters, MO; **Amanda Rose**, St. Charles Community College, Cottleville, MO

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9:15-10:00am

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Collaborative Partnerships Creating Pathways to Employment

Want to learn how collaborative partnerships lead to effective career pathways? Come and discover how a workforce development board, community college, and your employers can successfully implement a pathway for a skilled talent pipeline. **Demetria Robinson, Sharon Dehn**, Workforce Solutions Greater Dallas, Dallas, TX; **Gloria Smith**, Dallas County Community College District, Dallas, TX; **Elizabeth Morrison**, ResCare Workforce Services, Dallas, TX

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Makerspaces: Don't Do It Yourself, Do It Together!

This session will cover all the decisions that go into planning a makerspace, including its location, how to staff it, how to fund it, what projects fit priorities, how to enlist community and staff support, and how to seek donations. Learn how to strengthen STEM, encourage creativity, and ignite imagination. **Kathy Funston, Rachel Gorton**, Burnsville School District, Burnsville, MN

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How Will You Know They Know? Measuring Levels of Student Mastery

In a standards-based education system, measuring student performance is essential. Teachers must be able to determine what constitutes mastery and communicate expectations and results to students. This session will help teachers recognize that mastery assessment is more than simply marking right and wrong. **Sandra Harwell**, CORD, Lakeland, FL

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How Effective Is Your Program Advisory Board?

Attend this session to learn how to increase the effectiveness of your program advisory board. Hear from educators who have engaged, nurtured, and maintained board involvement in the design and delivery of their programs. Learn how to identify potential members, engage companies, and maintain their involvement. **Frances Bauman**, Transportation Careers: A Resource for Teachers, Springfield, IL; **Angela Jenkins**, Materials Handling Industry, Charlotte, NC

103 (Continued from 8:15a.m.)

Career Pathing Students to Success!

Attendees will learn from and engage with career and workforce development representatives from a leading secondary school CTE center, school counseling office, and State Department of Education. Understand how collaborating through multiple efforts is today's 'silver bullet' in appropriately career pathing students towards success! This back-to-back session will consist of four simultaneous Conversation Cafes. **Douglas Cullen, Jennifer Haskins, Kristy Butler**, Pinkerton Academy and CTE Region 17, Derry, NH; **Jennifer Kiley**, New Hampshire Department of Education, Concord, NH

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NSF ATE

Nanoscience: Multiple Courses, Pathways, and Careers

The multidisciplinary nature of nanoscience has resulted in the integration of nanotechnology into multiple courses and in a multitude of career options. Over a decade of nanotechnology education experience has defined lessons learned in over 20 career pathways and best practices for content development and presentation. These lessons and approaches will be shared and the many career options and pathways discussed. A hands-on activity will emphasize the multidisciplinary nature of nanoscience. **Deb Newberry**, DCTC/Nano-Link, Rosemount, MN

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ADULT

Secondary-to-Postsecondary Automotive Career Pathways: Driving Students to Success

Gateway Technical College serves thirteen public school districts in three counties in southeast Wisconsin. Attendees will be introduced to a successful approach to developing secondary-to-postsecondary career pathways through an overview of Gateway's automotive career pathway. Attendees will learn about best practices that can be replicated in any academic discipline. **Jaime Spaciel**, **Matt Janisin**, Gateway Technical College, Kenosha, WI

70

How to Build High-Quality Dual Enrollment Classes Through Strong Collaborative Practices

Attendees will learn practices that enhance communication between high schools and community college partners and collaboration skills that facilitate student transition. Other topics will include development of local pathway action teams (LPAT), development of mapping skills for each learning institution, development of pathway lead teachers, and how to find classes that are suitable for dual enrollment. **Bob Evans**, West Contra Costa Unified School District, Hercules, CA; **Melody Shah**, El Cerrito High School, El Cerrito, CA; **Fatham Riodan-Ng**, De Anza High School, Richmond, CA; **Angela Johnson**, West Contra Costa Unified School District, Pinole, CA

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NSF ATE

Take the BAIT: Completing a Bachelor's IT Degree at Your Community College

The University of North Texas began a new and innovative IT Bachelor's degree in 2008. This degree accepts community college credit hours that are not usually transferred successfully. Now this same program is set to be available through partner community colleges across the United States. Want to learn more? Want to become a partner? Come find out more in this session with one of the program creators. **David Keathly**, University of North Texas/CTC, Denton, TX

98

Recruitment and Retention: A Relationship-Building Process

Recruitment and retention take time. Building relationships, understanding programs, and working with students and parents are essential. This presentation will walk you through the year-long process needed to not only show success, but to show the steps necessary to prepare students for life after high school. **Ken Rosplohowski, Diana Fox-Galliher**, Toledo Public Schools, Toledo, OH

2

Creating a College and Career Readiness Culture in an Urban/Suburban School Setting

This session will provide information on working with the community to develop opportunities with local business for students' college and career readiness. Topics will include involvement/buy-in with school staff and development of student community citizenship. The session will be delivered by an educator with over 37 years of experience in teaching college and career readiness in urban and suburban districts. Participants will gain techniques for building on existing programs and establishing new initiatives. **Margaret (Bunny) Brooks**, Middletown City Schools, Middletown, OH; **Libby Turpin**, Lebanon High School, Lebanon, OH

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CareerSafe: Safety Education for America's Future

CareerSafe's vision is to provide every young worker with the skills to manage their long-term safety, health, and security. Attendees will learn about our affordable, informative, and innovative online training programs, including our authorized OSHA 10-Hour, cyber safety, and life skills training. **Katie George**, CareerSafe Online, College Station, TX

FRIDAY, October 27

10:30-11:15am

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FEATURED

The Pathway to Employment: Business and Educational Partnership Impact on Students Success

This session will provide a description of a partnership to deliver an apprenticeship program. The partnership is between a large German manufacturing and service organization located in the southeastern part of the United States and a community college. The purpose of this presentation is to not only describe the pathway to employment but also will provide the voice of three teenagers who entered a formal apprenticeship program. **Dawn Braswell**, Siemens Charlotte Energy Hub, Charlotte, NC; **James Bartlett**, North Carolina State University, Raleigh, NC

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Teaching Patient Care to Today's Students with Hands-On Learning Methods

Learn why hands-on learning methods work for today's learner and how health occupations instructors can use them to grab students' attention, engage them with active learning methods, and leave them ready for success in a growing field. Best practices for selecting and implementing these tools will also be shared. **Denise Bodart**, Realityworks, Eau Claire, WI

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ADULT

WorkWise to Build Employability Skills with Adult Basic Education Students

Adults with less than a high school diploma often need support in acquiring employability skills. However, few materials are written at their reading level. WorkWise is an affordable workbook series designed to help ABE-level students explore career pathways, plan an effective job search, and start strong at a new job. **Cynthia Campbell**, Gold Apple Services, LLC, Columbia, MD

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Win-Win: Creating and Sustaining Mutually Beneficial Partnerships Between Schools and Local Businesses

This session will help participants understand the anatomy of partnerships—what they are, how they work, and how to make them successful. We will share sample partnerships and support options and will explain the importance of MOUs. We will share strategies for sustaining partnerships and available resources. **Bob Brundrett**, Galveston Career Connect Grant, Galveston, TX; **Jim Lynch**, Apple Valley High School, Apple Valley, MN

32

In the CTE Classroom: Engaging Students with Formative Assessment

Using efficient and effective strategies for assessing Common Core standards in the CTE classroom is easier than you think. In this session, participants will learn about seven formative assessment tools that help to easily check students' progress and will put a spotlight on topics that need more attention. BYOD and interact with us as you explore these tools. **Patty Sarkady**, **Patti Farlee**, Riverside Brookfield High School, Riverside, IL

80

Family Feud: Building Equitable Pathways for Everyone in the CCPT Family

Come learn about exciting pathways being designed for students (age 16–24) in independent study programs, courts, communities, and continuation high schools. Three CCPT grantees will share lessons learned on developing marketing materials, employer relationships, and secondary/postsecondary partnerships. Attendees will leave with ideas on how to build pathways for *all* students. **LaShonda Taylor**, Alameda County Office of Education, Hayward, CA; **Gina Del Carlo**, Contra Costa Workforce Development Board, Pleasant Hill, CA; **Christine Boynton**, Alameda County Office of Education, Hayward, CA; **Debra DiBiase**, SIATech, San Jose, CA

1

Mapping Upward: Stackable Credentials that Lead to Careers

Mapping Upward, a project of the U.S. Department of Education, is building the capacity of community colleges to improve career and technical education credential attainment rates through stackable credentials – a series of shorter pathways to associate degrees in high-demand fields. Learn how colleges are leveraging stackable certificates to make degree completion more attainable for more students, while ensuring programs are demand driven and yield valuable industry credentials. **Hope Cotner, Dick Hinckley**, CORD, Waco, TX

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ADULT

The Loss of Job Knowledge Through Retirement and Turnover: Can We Save It?

As baby boomers retire in large numbers, managers, trainers, and workforce developers can stem the resulting loss of job knowledge and experience by shifting classroom training programs to job-specific needs using a blend of advanced technology and scenario-based learning. Case studies of how this has been applied in several sectors will be included. **Ronald Tarr**, RAPTARR, LLC, Orlando, FL

36

High School Capstone Class Takes on 21st-Century Education

We prepare future educators for college and beyond. In our capstone course, we focus on technology, tips, on-site experiences, and reflection. This presentation will focus on the Education Career Pathway developed in our district and how we incorporate distance learning into our curriculum on a regular basis. **Dana Thomas, Jennifer Maldonado**, Leyden District 212, Franklin Park, IL

23

Shift Happens: Moving from Counseling for College to Counseling for Careers

Participants will learn strategies for shifting the focus from counseling students solely for college to a focus on careers. Some students go to college, but all strive for careers. The presenter will share specific strategies schools use to make the shift. **Scott Warren**, Southern Regional Education Board, Atlanta, GA

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Front Street Writers: The National Writers Series Partners with the TBAISD Career-Tech Center to Help Students Make a Living as Working Writers

We'll share our journey in building a partnership with The National Writers Series, a local creative writing powerhouse, to bring world-class writing instruction to students at the Career-Tech Center. Our program capitalizes on the thriving national writing scene in our town to bring best-selling authors into the classroom to share their experiences as working writers. With creative writing as the foundation, students explore writing across all sectors of business and industry, including journalism, broadcasting, marketing, business, technical, and digital media. **Stephanie Long, Pat Lamb, Teresa Scollon**, Traverse Bay Area Intermediate School District Career-Tech Center, Traverse City, MI

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TECHNOLOGY

Old School Home Ec Goes 1:1 High Tech

Learn how a 25+ year veteran teacher revamped her entire teaching process to accommodate the evaluation framework and a 1:1 iPad environment. The session will provide numerous takeaways that can be incorporated into all classes. Topics will include Google forms to assess students, self-assessments, peer assessments, enrichment activities, bell ringers, intervention steps, QR codes, promotional career pathways, and much more. Attendees will receive tons of take-away strategies and suggestions that apply to any classroom. **Amy Cryan, Janet Meyers**, Oak Lawn Community High School, Oak Lawn, IL

101

Integrating College and Career Readiness Standards and Teacher Preparation

Many teacher preparation programs fail to include instruction in the college and career readiness standards and teaching for relevance. Faculty members are not always familiar with these standards, so they are rarely emphasized. This session is designed to help faculty integrate college and career readiness standards into existing curriculum. **Sandra Harwell**, COD, Lakeland, FL

FRIDAY, October 27

12:45-1:30pm

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Benefits of Dual Enrollment to Diverse Middle-Achieving California Students

Attendees will increase their understanding of dual enrollment participation eligibility criteria, gain a broader understanding of research findings suggesting that middle-achieving students are helped by participation in dual enrollment, and benefit from reflection and consideration of the evidentiary basis of dual enrollment eligibility standards. **Bonita Steele**, Kern Community College District, Bakersfield, CA

8

Warnings! Warnings! Warnings! When Is It Enough?

Imagine a classroom where the noncompliant student learns to self-correct inappropriate behavior, a classroom where you could spend more time doing what you love—teaching. The techniques provided will increase the time you spend on academics while empowering your students to take responsibility for their actions and achieve success. **Lindsey Toth**, Virginia Beach City Public Schools, Virginia Beach, VA

35

Innovative CTE: Creating Synergy Between Industry Partners and Faculty

Representatives of the Esparto Unified School District will discuss the initiation and implementation of the district's Research, Technology, and Bioengineering (RTB) program, an innovative CTE program. Efforts undertaken include a focus on STEM curriculum pertaining to local and regional industries, specifically bioengineering. The presenters will describe field research strategies, laboratory exercises, course development, and technology integration associated with RTB. **David Yust, Jennifer Wiese**, Esparto Unified School District, Esparto, CA

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NSF: SHINE

Industry-Driven Stackable Certification of Operator Competency on High-Tech Instruments

Seattle's Hub for Industry-driven Nanotechnology Education (SHINE) has adopted a 75-year-old training/certification/standard operating procedure (SOP) methodology to ensure students leave North Seattle College's Nanotechnology Program with a portfolio of competencies in operating high-tech instruments. Participants will leave with a template/sample SOP and a certification tracker to use in their organizations.

Joseph Amann, Seattle's Hub for Industry-driven Nanotechnology Education (SHINE) and North Seattle College, Seattle, WA; **James Hyder**, SHINE Industrial Liaison, Rio Rancho, NM

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CTE, STEM, and Common Core Best/Proven Practices

Participants will learn proven techniques in contextualization/integration of core subjects with CTE through project-based learning. Participants will leave with two contextualized units for Algebra 1 and Geometry. This model was created by teachers, for teachers. It is more than simulations. We strive for student mastery and narrowing of the achievement gap. **Scott Burke**, **Christina Paguyo**, Loveland High School, Loveland, CO

30

Inspiring Secondary Students to Choose Appetizing Options from an Innovative Course Menu in Order to Excel

Learn how Putnam County High School (PCHS) offers 39 innovative college and career pathways that give students multiple opportunities to earn college credits and industry credentials. Over the past three years, PCHS students have earned over 400 industry credentials and technical certificates, as well as 4,000 college credits. PCHS students hear outstanding guest speakers, participate in internships and mentorships, tour college campuses, attend career fairs, and go on informative field trips. PCHS students excel because they are truly college or career ready after graduation. **Katherine Reid**, **Fancia Harris**, **Shanqueetay Easley**, Putnam County High School, Eatonton, GA

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TECHNOLOGY

Creating Location-Based Games to Engage and Motivate: Discovery Agents Gaming Platform

Using Discovery Agents, a location-based gaming platform, educators have created games located in state/national/local parks, war memorials, and other public spaces by incorporating landmarks such as grave markers, museums, and water towers. This presentation encompasses their thoughts about the technology and their opinions about learning with a location-based game. **Jeannie Justice**, Morehead State University, Morehead, KY

Teaching Teamwork: Measuring the Collaboration Skills Sought by Employers

Collaboration is *good* for employability. In year three of our NSF project, students used our activities to solve realistic, interactive, and collaborative electronics problems simulated in a browser. The computer looks over their shoulders, logging all their actions and chats, as they manipulate and measure resistors, logic circuits, and microprocessors. We are analyzing the voluminous data and finding how students collaborate – or not!

John Chamberlain, CORD, Waco, TX