About NCPN

The National Career Pathways Network (NCPN) is dedicated to the advancement of Career Pathways, career technical education (CTE), and workforce development initiatives. NCPN’s partners and affiliates encompass secondary and postsecondary education, adult education, workforce development, economic development, workforce investment boards, correctional education, community-based organizations, and employers.

Founded in 1991 (originally as the National Tech Prep Network), NCPN assists educators and their partners in planning, implementing, evaluating, and improving Career Pathways programs across the country. Through conferences, workshops, and publications, NCPN facilitates the exchange of promising practices and innovations.

A division of CORD (Center for Occupational Research and Development), NCPN connects people and resources, provides leadership and professional development, and explores solutions through partnering at local, state, and national levels.

Special Thanks to Our Conference Sponsors!

TOYOTA

FAME

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ATE CENTERS

INCA

CAT®
As director of the National Career Pathways Network, I am delighted to welcome you to the beautiful city of Louisville and the 2018 NCPN Conference! I hope you find some time to explore our host city ... there’s plenty to see and do including cultural venues, museums, restaurants, and Churchill Downs.

This year’s theme—Career Pathways: Creating Connections, Building Futures—demonstrates NCPN’s commitment to supporting practitioners who are helping learners across our country identify and pursue Career Pathways that will assure them a bright future. Creating connections and building futures has been the theme at the federal level too. We now have Career Pathways strongly represented in legislation. In both the Workforce Innovation and Opportunity Act (WIOA) and Perkins legislation, we have strong definitions and focus on the Career Pathways movement. Multiple federal departments have endorsed Career Pathways and are continuing to incorporate Career Pathways approaches into a wide range of program investments, research activities, and technical assistance efforts. The NCPN conference will continue to support the work of all of these agencies.

Keeping with our theme of creating connections and building futures, our opening keynote speaker, Josh Davies, CEO of the Center for Work Ethic Development, will deliver an engaging and impactful keynote on work ethics—the must-have skills for the future workforce. You don’t want to miss this.

Our special session sponsored by Toyota/FAME will feature Susan Elkington, the first female president of Toyota’s largest plant in the world (TMMK in Georgetown, Kentucky). Ms. Elkington will discuss Toyota’s Career Pathway initiatives and partnerships and how they are addressing critically pressing workforce needs.

Connections that you will want to make throughout the conference include the recipients of the Career Pathways Partnership Excellence Award. The winner and honorable mention recipients will present featured sessions and be celebrated at the Awards Luncheon/Closing Session on Friday. The exhibit hall also offers great connections with education and technology vendors, National Science Foundation Advanced Technological Education (NSF ATE) programs, and Kentucky student displays.

Our closing session on Friday features a good friend of Career Pathways and NCPN, Bryan Albrecht, President of Gateway Technical College in Wisconsin. Bryan’s presentation is titled Pathways and Prosperity: Student and Community Success.

I have had the privilege of making over 10,000 “connections” in the last two decades with my association with NCPN and have a lot of respect for those connections and their hard work and dedication to education and workforce development. Many of those connections have become personal friends. I am also “building futures,” which includes my retirement. This will be my last NCPN conference as your director. You will be in good hands with one of my best connections and your new NCPN Director, Claudia Maness. I have worked closely with Claudia during the last year and I am confident in her ability to guide NCPN toward a bright future.

Thank you for all the memories and your hard work. Enjoy the conference.

Debbie Mills
NCPN Director
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Indianapolis, IN

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Frankfort, KY

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Illinois Community College Board, Springfield, IL

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Bainbridge High Schools, Bainbridge, GA

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St. Petersburg College, Clearwater, FL

Vickie Wheelis
LA Delta Community College, Monroe, LA

Rozlynn Wick
SAIT Polytechnic, Calgary, Alberta

International Committee
Pedro Esteva, Chair
IMCA-Implementos Y Maquinarias

2017 Planning Committee

# 2018 Conference Schedule at a Glance

All conference sessions held at the Galt House Hotel (2nd and 3rd floors of the Suite Tower).

<table>
<thead>
<tr>
<th>Tuesday, Oct 9</th>
<th>4:00–7:00 P.M.</th>
<th>Registration for Preconference Events</th>
<th>2nd Floor Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wednesday, Oct 10</strong></td>
<td>7:00–10:00 A.M.</td>
<td>Registration for Preconference Events</td>
<td>2nd Floor Registration</td>
</tr>
<tr>
<td></td>
<td>You must register and pay an additional fee to attend preconference events.</td>
<td></td>
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</tr>
<tr>
<td>9:00 A.M.–Noon</td>
<td>Half-day Workshops and Tour</td>
<td>• Effective Employer Engagement <em>(includes lunch)</em>&lt;br&gt;• Off to the Races with Work-Based Learning&lt;br&gt;• People, Purpose, Passion, and Performance: Leadership&lt;br&gt;• TOUR: University of Louisville Workforce Development Partnerships <em>(Bus boards 8:30 outside hotel lobby).</em></td>
<td>Clements&lt;br&gt;Breathitt&lt;br&gt;Brown</td>
</tr>
<tr>
<td>9:00 A.M.–4:30 P.M.</td>
<td>Full-day Workshop</td>
<td>Career Pathways Leadership Certification <em>(includes lunch)</em> <em>(room assignment shown on back of nametag)</em></td>
<td>Combs Chandler&lt;br&gt;Carroll Ford</td>
</tr>
<tr>
<td>10:00 A.M.–6:00 P.M.</td>
<td>Registration for Main Conference</td>
<td>2nd Floor Registration</td>
<td></td>
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<tr>
<td>Noon–1:00 P.M.</td>
<td>Preconference Luncheon <em>(for those attending two half-day workshops, a half-day workshop plus a tour, the full-day Career Pathways Leadership Certification workshop, or the Engaging Employers workshop)</em></td>
<td>Grand Ballroom C</td>
<td></td>
</tr>
<tr>
<td>1:30–4:30 P.M.</td>
<td>Half-day Workshops</td>
<td>• Apprenticeships: A “Favored” Contender in Work-Based Learning&lt;br&gt;• Infusing Vital Employability Skills into Technical Programs&lt;br&gt;• Reentry Adult Career Pathways: From Incarceration to the Workplace&lt;br&gt;• TOUR: AMT Live! FAME Award-Winning CP Program <em>(Bus boards 1:00 outside hotel lobby.)</em></td>
<td>Breathitt&lt;br&gt;Nunn&lt;br&gt;Clements</td>
</tr>
<tr>
<td><strong>Thursday, Oct 11</strong></td>
<td>7:00 A.M.–5:00 P.M.</td>
<td>Conference Registration</td>
<td>2nd Floor Registration</td>
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<tr>
<td>9:30 A.M.–4:30 P.M.</td>
<td>Exhibits Open</td>
<td>Exhibit Hall (2nd floor)</td>
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</tr>
<tr>
<td>8:30–9:45 A.M.</td>
<td>Opening Session</td>
<td>Grand Ballroom A</td>
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<tr>
<td>9:45–10:30 A.M.</td>
<td>Snack Break in Exhibit Hall</td>
<td>Exhibit Hall</td>
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</tr>
<tr>
<td>10:30–11:15 A.M.</td>
<td>Concurrent Sessions</td>
<td>See page 16.</td>
<td></td>
</tr>
<tr>
<td>12:15–1:30 P.M.</td>
<td>Box Lunch / View Exhibits / Kentucky Student Showcase <em>(Box lunches in back of Exhibit Hall. Seating in Grand Ballroom C.)</em></td>
<td>Exhibit Hall</td>
<td></td>
</tr>
<tr>
<td>1:30–2:15 P.M.</td>
<td>Concurrent Sessions</td>
<td>See page 20.</td>
<td></td>
</tr>
<tr>
<td>2:15–2:45 P.M.</td>
<td>Snack Break in Exhibit Hall</td>
<td>Exhibit Hall</td>
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<tr>
<td>2:45–3:30 P.M.</td>
<td>Concurrent Sessions</td>
<td>See page 22.</td>
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<tr>
<td>3:45–4:45 P.M.</td>
<td>Special Session with Toyota FAME</td>
<td>Grand Ballroom A</td>
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<tr>
<td><strong>Friday, Oct 12</strong></td>
<td>7:30 A.M.–Noon</td>
<td>Conference Registration</td>
<td>2nd Floor Registration</td>
</tr>
<tr>
<td>7:30 A.M.–Noon</td>
<td>Exhibits Open</td>
<td>Exhibit Hall</td>
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<tr>
<td>7:30–8:15 A.M.</td>
<td>Continental Breakfast in Exhibit Hall</td>
<td>Exhibit Hall</td>
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<tr>
<td>8:15–9:00 A.M.</td>
<td>Concurrent Sessions</td>
<td>See page 25.</td>
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<tr>
<td>9:15–10:00 A.M.</td>
<td>Concurrent Sessions</td>
<td>See page 27.</td>
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</tr>
<tr>
<td>10:00–10:30 A.M.</td>
<td>Beverage Break in Exhibit Hall</td>
<td>Exhibit Hall</td>
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</tr>
<tr>
<td>12:30–2:00 P.M.</td>
<td>NCPN Awards Luncheon and Closing Session</td>
<td>Grand Ballroom A</td>
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</table>
# Personal Schedule

All conference sessions held in the Galt House Hotel (2nd and 3rd floors of the Suite Tower).

<table>
<thead>
<tr>
<th>Wednesday, Oct 10</th>
<th>Selection</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:00 A.M.–Noon</td>
<td>Half-day Workshop/Tour <em>(if applicable)</em></td>
<td></td>
</tr>
<tr>
<td>9:00 A.M.–4:30 P.M.</td>
<td>Full-day Workshop <em>(if applicable)</em></td>
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<tr>
<td>Noon–1:00 P.M.</td>
<td>Preconference Lunch <em>(for attendees of full-day or two half-day workshops or the Employer-Education workshop)</em></td>
<td>Grand Ballroom C</td>
</tr>
<tr>
<td>1:30–4:30 P.M.</td>
<td>Half-day Workshop/Tour <em>(if applicable)</em></td>
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<tr>
<th>Thursday, Oct 11</th>
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<tr>
<td>8:30–9:45 A.M.</td>
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<td>10:30–11:15 A.M.</td>
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<td>11:30 A.M.–12:15 P.M.</td>
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<td>12:15–1:30 P.M.</td>
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<td>1:30–2:15 P.M.</td>
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<tr>
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<td>12:30–2:00 P.M.</td>
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General Information

Business Center
The Business Center is located on the first floor near the Galt House registration desk.

CEU Credit
_NCPN does not award CEU credit._ NCPN has provided a CEU-documentation form in each conference packet to assist attendees in recording and reporting professional development training for their attendance during the conference. If you attend a breakout session in all eight time slots as well as the Opening Session, Awards Lunch/Closing Session, and Special Session, you will take part in 9.5 hours of strong programming. The half-day and full-day preconference events on Wednesday provide 3.5–7 additional hours of training.

States and districts have varying rules and processes for awarding continuing education units (CEU). If your CEU-granting organization requires further documentation, please ask the session presenter to initial or sign on the lines where you list the sessions.

Another possibility is to ask your Career Pathways/CTE consortium director or supervisor to sign a statement verifying your attendance in conference activities. A combination of the form and written summaries (or handouts) about the sessions may satisfy the requirements.

Evaluations
Your evaluation of the NCPN conference is vital for next year’s conference planning! Please look for the evaluation sheets in your conference packets. Complete a **blue form** for each session you attend and turn it in to the presenter or leave it at the NCPN registration desk (until noon on Friday).

Complete the **yellow form** for the conference overall and turn it in at the Closing Session on Friday, place it on the NCPN registration counter, or scan and email to swilson@cord.org.

Food
NCPN will provide the following:

- **Preconference Lunch** (Grand Ballroom C)
  - Wednesday, Noon–1:00 p.m. for those attending one full-day or two half-day events or the Engaging Employers workshop.

- **Exhibit Hall Breaks** (Exhibit Hall)
  - Thursday 9:45–10:30 a.m. and 2:15–2:45 p.m.
  - Friday, 10:00–10:30 a.m.

- **Box Lunches** (Exhibit Hall)
  - Thursday 12:15 a.m.–1:30 p.m.
  - A box lunch and drink will be provided to all conference attendees. Food stations will be located in the back of exhibit hall. Standing tables are provided inside the Exhibit Hall. Seating is available in Grand Ballroom C.

- **Continental Breakfast** (Exhibit Hall)
  - Friday 7:30–8:15 a.m.

- **NCPN Awards Luncheon / Closing Session** (Grand Ballroom A)
  - Friday 12:30 a.m.–2:00 p.m. If you signed up on the NCPN registration form to attend the Awards Luncheon/Closing Session, there will be a ticket attached to your nametag.

Guest Events
The fee for guest registration is $60. Guests are entitled to attend the Exhibit Hall events on Thursday and Friday.

Hotel
_Galt House_
140 N Fourth Street
Louisville, KY 40202
502-589-5200

Louisville—Things to Do / Restaurants
Information on restaurants and things to do in Louisville can be found at the concierge desk of the Galt House. There is also information located on the “Resource Table” near the NCPN registration counters on the 2nd floor.

Lost and Found
Found items will be held at the NCPN registration counter on the 2nd floor.

NCPN Office
The NCPN office is in Willis on the 2nd floor.

Presenters Index
An index of conference presenters can be found at the end of this book.

Resource Table
An area near the NCPN registration counter is devoted to resources and will be open throughout the conference. Attendees are welcome to take extra copies of handouts and other materials or place resources on the table.
A big thanks goes to the following groups from our host state of Kentucky!

**Color Guard**
During the Opening Session on Thursday morning, we will have a color guard display the colors during the National Anthem. This year’s color guard is provided by Seneca High School MCJROTC under the direction of Sergeant Major David Compton in Louisville.

**Playing of National Anthem**
The National Anthem will be played by Steve Buttleman, bugler for Churchill Downs in Louisville, Kentucky.

**Kentucky Student Showcase**
The NCPN exhibit hall would not be complete without a student showcase from the host state. This year’s student showcase is made up of displays and demonstrations highlighting the accomplishments of high school students. Students will be available to discuss their projects, so be sure to visit them and show your support for what they have accomplished.

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### General Information

#### Registration Hours
NCPN conference registration, located near the elevators on the 2nd floor, will be open the following hours:

**Preconference Registration**  
TUE 4:00–7:00 P.M.  
WED 7:00–10:00 A.M.

**Main Conference Registration**  
WED 10:00 A.M.–6:00 P.M.  
THUR 7:00 A.M.–5:00 P.M.  
FRI 7:30 A.M.–Noon

#### Exhibit Hall Hours / Events
Exhibit Hall (2nd Floor)

**THURSDAY 9:30 A.M.–4:30 P.M.**  
Snack Break 9:45–10:30  
Box Lunch / Exhibits / KY Student Showcase  
12:15–1:30  
Box lunches are located in the back of the exhibit hall. Seating is available in Grand Ballroom C.  
Snack Break 2:15–2:45

**FRIDAY 7:30 A.M.–Noon**  
Continental Breakfast 7:30–8:15  
Beverage Break 10:00–10:30

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**Not Your Average 3D Printer!**

Come see us at Booth 11.
Opening Session

Thursday 8:30–9:45, Grand Ballroom A

Work Ethic: The Must-Have Skills for the 21st-Century Workforce

With the rapid change taking place in every sector of the workforce, a set of skills has emerged as the must-haves for the future. Sometimes called soft skills or foundational behaviors, employers simply call them Work Ethic. Nearly 9 out of 10 hiring managers nationwide say work ethic is their most important factor in hiring, yet fewer than 1 in 5 people have these workplace skills. Learn how to build these skills in your existing academic and technical courses and prepare your students for the 21st-century workforce. You don’t want to miss this motivational keynote with Josh Davies, CEO, The Center for Work Ethic Development!

Special Session

Thursday 3:45–4:45 p.m., Grand Ballroom AB

Toyota FAME Career Pathway: Two Million!

Two million! That’s the number of manufacturing jobs expected to go unfilled over the next decade. During the Special Session hosted by Toyota and FAME (Federation for Advanced Manufacturing Education), Susan Elkington, president of Toyota’s largest plant in the world (TMMK in Georgetown, Kentucky), will discuss Toyota’s support for career pathway initiatives and partnerships.

Rex Bolinger will share how PLTW (Project Lead The Way) is addressing critically pressing workforce needs by inspiring, engaging, and empowering PreK-12 students.

Closing remarks will be provided by Gardner Carrick, Vice President, Strategic Initiatives, The Manufacturing Institute.

NCPN Awards Luncheon/ Closing Session

Friday, 12:30–2:00, Grand Ballroom A

For NCPN members who signed up on their registration forms to attend. If you did not sign up and would like to attend, go to the NCPN registration counters to get a ticket.

Keynote

Bryan Albrecht, President, Gateway Technical College

Pathways and Prosperity: Student and Community Success

Career Pathways Partnership Excellence Awards Ceremony

Sponsored by

The Career Pathways Partnership Excellence Award emphasizes the importance of career guidance and advising, professional development for educators and employers, and the employer role in providing work-based learning opportunities for students. Three award-winning programs will be recognized.

Winner: Florida Pathways to Apprenticeship, Florida Masonry Apprentice and Education Foundation (FMAEF), Orlando, FL

Honorable Mention: Reseda Charter High School Police Academy Magnet, Reseda, CA

Honorable Mention: Port Houston Partners in Maritime Education, Houston, TX

Leadership Development Academy Graduates Recognition

The NCPN Leadership Development Academy is a year-long professional development program that focuses on leadership skills for local, regional, and state Career Pathways systems.
NSF ATE Sessions

The National Science Foundation’s Advanced Technological Education (ATE) program strengthens the skills of technicians whose work is vital to the nation’s prosperity and security. Through collaboration between two-year institutions and industry, the NSF ATE community ensures that our future technical workforce receives the education/tools necessary to meet the needs of high-tech industry.

Thursday 10:30–11:15  
**Strand 1 · SPAW · CFAES · ③**  
Visiting Industry Facilities: Great Beginnings to Student Engagement in Careers
Providing opportunities for students to visit industry facilities is an important component of career exploration and workbased education. FLATE’s Regional Center for Manufacturing Education in Florida has organized hundreds of student tours during manufacturing month for many years. This presentation will share guidelines and tips for impactful student tours and integration of tours into career education. **Marilyn Barger**, Florida Advanced Technological Education Center (FLATE), Tampa, FL

Thursday 11:30–12:15  
**Strands 1,2 · SP · CFA · ③**  
College Immersion: A Unique Experience for High School Students
Indian Hills Community College and Columbia Area Career Center have jointly developed a unique college immersion experience where students stay overnight and work with college students on laboratory activities. Instructors and recruiters will learn how this partnership allows students to explore career and educational opportunities while experiencing campus life. **Greg Kepner**, Indian Hills Community College, Ottumwa, IA

Thursday 1:30–2:15  
**Strands 2–4 · PW · CFAES · ③**  
Actively Engaging Employers Boosts Recruitment and Gives Students the Skills That Get Them Hired
The National Convergence Technology Center’s Business and Industry Leadership Team (BILT) model engages industry leaders to co-lead the Center’s work. The BILT works in partnership with the Center to align curriculum with workforce demands for the future. Forsyth Technical Community College has adapted the BILT model to improve recruitment as well. Attendees will learn key strategies and practices from educators and employers and receive free tools to promote engagement through the BILT model. **Ann Beheler**, National Convergence Technology Center, Frisco, TX; **Matt Glover**, Le-Vel Brands, Plano, TX; **David Dinkins**, Forsyth Technical Community College, Winston-Salem, NC; **Shawn Meck**, Progress Rail, Winston-Salem, NC

Thursday 2:45–3:30  
**Collins**  
**Strands 1,2 · SPW · CFAES · ③**  
Educator Bus Tour: Raising Career Awareness by Connecting K-12 With Industry
Learn how Columbus State Community College plans and implements full-day interactive bus tours, giving high school educators the opportunity to tour local companies in high-demand industries. Best practices in planning, project management, and communication will be shared, enabling attendees to more easily create events that connect K-12 and industry. **John Sherwood, Tara Sheffer**, Columbus State Community College, Columbus, OH

Friday 8:15–9:00  
**Breathitt**  
**Strand 3 · SPAW · AE · ③**  
Successful Partnerships: Technician Education and Workforce Fundamentals
This session will provide examples of successful partnerships involving technical colleges, state and private workforce development organizations, and state universities. Attendees will learn best practices that will help them to recreate successful partnerships in their states. **Eddie Bennett**, Center for Workforce Development, Clemson University, Clemson, SC; **Carl Washburn**, Greenville Technical College, Greenville, SC

Friday 9:15–10:00  
**Breathitt**  
**Strands 1,2 · SPA · CFA · ③**  
Helping Today's Students Find Their Place
If you asked students, “What does a civil engineer do?” what sort of answer would you get? Most students have probably never thought about it. This interactive session will share AB Tech’s proven strategies for helping students learn about careers they have probably never even thought about, along with strategies for reaching out to ALL students. Attendees will also gain ideas and materials for increasing female enrollment in technical programs. **Jim Sullivan, Pamela Silvers**, Asheville-Buncombe Technical Community College, Asheville, NC

Friday 10:30–11:15  
**French (3rd floor)**  
**Strand 2 · SPW · FA · ③**  
Development of an Education-Specific National Accreditation Program Using a National Core Curriculum
The presenter will discuss the process for developing a discipline-specific national accreditation program. Attendees will also learn about the steps that Weld Ed, an NSF National Center of Excellence, has used to develop this type of low-cost accreditation program. The program can be used as a model for other disciplines. **Mark Baugh**, Weber State University, Ogden, UT

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The National Science Foundation’s grant support for two-year colleges in the Division of Undergraduate Education (DUE) and the Division of Research on Learning in Formal and Informal Settings (DRL)

Advanced Technological Education (ATE) centers and projects offer new materials, exemplary methods, professional development, and research leading to enhanced technician education.

Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM) supplies scholarships for academically talented, financially needy STEM students.

Improving Undergraduate STEM Education (IUSE) supports research and development leading to and propagating interventions that improve both the quality and quantity of STEM graduates.

SBIR/STTR Phase II-CC Supplements
The NSF has supplemental funding available to support these kinds of partnerships between small businesses (with active SBIR funding) and community colleges. There are supplements available to support internships by college instructors (RET), student internships (REU, VRS), and phase II CC supplements to support partnerships.
www.nsf.gov/eng/iip/sbir/Supplement

Robert Noyce Teacher Scholarship Program (Noyce) provides funds to post-secondary institutions to support scholarships, stipends, and academic programs for STEM majors and professionals to become K-12 teachers.
ADVANCED TECHNOLOGICAL EDUCATION

The National Science Foundation’s Advanced Technological Education (ATE) program strengthens the skills of technicians, whose work is vitally important to the nation’s prosperity and security. The program supports the valuable work of community colleges as they lead the way in preparing the new American workforce.

The ATE program funds projects and centers in a diverse range of technology areas including advanced manufacturing, cybersecurity, biotechnology, and engineering – plus many more. The program builds partnerships with industry and between academic institutions to promote improvement of science and engineering technician education at the undergraduate and secondary school levels, and in the workforce.

The ATE Impacts blog and book offer a more in-depth overview of the innovative work done by the ATE community. Visit http://ateimpacts.net to read the blog or access the book.

Preconference Events

Morning Preconference Workshops and Tour • 9:00 A.M.–Noon

Clements
Effective Employer Engagement
Attendees will interact with employers and community college practitioners as they examine working models of education and industry partnerships. Representatives of community and technical colleges will present their models, providing time for both an employer panel and the attendees to interact with the presenters with observations, questions, and clarifications. Attendees will identify effective employer engagement practices and consider how they can be adopted or adapted in their home communities. Moderator: Richard C. Hinckley, CORD, Waco, TX. Panel: Ann Beheler, Collin College, Frisco, TX; Rebecca Bettencourt, E&J Gallo, Modesto, CA; Janelle Comstock, Workforce Development Board Mid-Ohio Valley, Parkersburg, WV; Debbie Davidson, CORD, Waco, TX; Matt Glover, Le-Vel Brands, Plano, TX; Shawn Meck, Progress Rail, Winston-Salem, NC; George Parker, Boeing, Seattle, WA.

Breathitt
Off to the Races with Work-Based Learning
Work-based learning (WBL) is not a single experience but a continuum of experiences that impact a person’s career path. To be sustainable, that continuum must stand on a foundation built and supported by many entities. This preconference session will provide an overview of the WBL continuum and the systems and processes that keep it balanced and running efficiently. The focus will be on firmly establishing a local or statewide system that supports meaningful WBL opportunities. The session will provide an opportunity for state or local teams to review their current strategies and processes or develop new ones. Examples of effective practices will be shared along with tools for developing strategies for implementation. Attendees will take away tools and resources and a better understanding of their current status and steps for moving forward. Presenters: Fred Franko, Workforce Education Coordinator, Workforce Development Programs, Colorado Department of Labor and Employment, Denver, CO; Thomas Hartman, Talent Development Coordinator, Colorado Workforce Development Council, Denver, CO; Pam Hatcher, Dean of Academics and Workforce Development, Bluegrass Community and Technical College, Lexington, KY; Jennifer Jirous-Rapp, Workforce Development Programs, Colorado Dept. of Labor and Employment, Denver, CO; Melissa Martin, Director of Pathways, Career and Technical Education (CTE), Colorado Community College System (CCCS), Denver, CO.

TOUR (Bus boards at 8:30 outside hotel lobby.)
University of Louisville Workforce Development Partnerships
Attendees will tour the FirstBuild makerspace and microfactory at the University of Louisville (UofL). FirstBuild, a partnership between UofL and GE Appliances (a Haier company), is leveraging a global co-creation community—both in the UofL microfactory and online—to develop the next generation of home appliance innovations. FirstBuild is creating and training its own workforce by hiring UofL students. UofL is also working with Cardinal Health and Kindred Healthcare, Fortune 500 companies to revolutionize the healthcare industry while developing homegrown talent.

Brown
People, Purpose, Passion, and Performance: Shaping Futures Through Leadership
This preconference session will focus on leadership and innovative strategies for building leadership skills among Career Pathways leaders. Attendees will leave with renewed energy, effective practices for learning and improving leadership skills, and new approaches that can be applied at their educational institutions. Topics will include: accountability, change, coaching, communication, conflict resolution, organizational culture, professionalism, motivation, relationship building, strategic planning, and teamwork. Facilitator: Jeraleine Johnson, School District of Palm Beach County, West Palm Beach, FL. Guest workshop leader will be Colonel Wendy L. Rivers, Chief of Operations Support Division (OSD) at Human Resources Command (HRC). She also served as the 18th Commander of the U.S. Army Information Systems Engineering Command (USAISEC) at Fort Huachuca, Arizona.
Career Pathways Leadership Certification (CPL)

Combs Chandler (Group 1) / Carroll Ford (Group 2) (For your location, see ticket on back of nametag.)
Certification requires attending this workshop and at least six sessions on Thursday and Friday.

If you are involved in CTE, adult ed, counseling, corrections, or workforce development and your duties have expanded to include Career Pathways, join us for an introduction to Career Pathways and an evaluation of where you are and what your next steps should be.

Topics:
• Need for Career Pathways Partnerships
• Sector Identification and Employer Engagement
• Program Design and Delivery
• Funding
• Academic Achievement
• Career Planning
• Professional Development
• Begin with the End in Mind

Sandra Harwell, CORD, Waco, TX
Claudia Maness, CORD, Waco, TX
Ann Westrich, Wisconsin Technical College System Office, Madison, WI

Preconference Luncheon
Noon–1:00, Grand Ballroom C

For those attending two half-day workshops, one full-day workshop, or the Engaging Employers workshop

Keynote: Opportunities for Growth in a Time of Extraordinary Change

Todd McLees, Founder and Managing Partner, Pendio Group

Todd will offer insights on the importance of transformational change as it relates to innovation in the industry sector and how educators can prepare students for the changing jobs in the new economy.

The AMT Live tour will board at 1:00 outside the hotel lobby.
You must register and pay an additional fee to attend preconference events.

Afternoon Preconference Workshops and Tour • 1:30–4:30

**Nunn**

**Infusing Vital Employability Skills into Technical Programs**

Members of the NSF ATE Necessary Skills Now project team will share instructional modules in advanced manufacturing and cybersecurity that integrate employability topics into technical instruction. Attendees will receive a template for developing their own integrated projects, along with strategies for partnering with employers to develop student activities that model the workplace. The presenters will also share strategies and resources for teaching and assessing employability skills. **Marilyn Barger**, FLATE, Tampa, FL; **Hope Cotner, John Chamberlain**, CORD, Waco, TX

**Clements**

**Reentry Adult Career Pathways: From Incarceration to the Workplace**

The pathway from incarceration to the workplace is fraught with misinformation, displaced guidance, and distrust. Yet if we are to reduce recidivism and the impact of recidivism on families, communities, and the justice system, we need solid plans and successful examples of programming that works. This preconference session will investigate promising practices and provide action steps. **Moderator: Richard C. Hinckley**, CORD, Waco, TX; **Panel: Peter Moote**, CORD, Seattle, WA; **Jaime Spaciel**, Gateway Technical College, Kenosha, WI

**Breathitt**

**Apprenticeships: A “Favored” Contender in the Field of Work-Based Learning**

This session will focus on apprenticeships and pre-apprenticeships within the work-based learning continuum. Topics will include clarification of terminology, strategies for business engagement, partnership building, braided funding, intermediaries, and the roles of partners. Attendees will hear about effective practices and lessons learned from states that are making progress in this area. Attendees will develop action steps for integrating these into their own state and local plans. **Fred Franko**, Workforce Education Coordinator, Workforce Development Programs, CO Dept of Labor and Employment, Denver, CO; **Thomas Hartman**, Talent Development Coordinator, CO Workforce Development Council, Denver, CO; **Pam Hatcher**, Dean of Academics and Workforce Development, Bluegrass Community and Technical College, Lexington, KY; **Jennifer Jirous-Rapp**, Workforce Development Programs, CO Dept of Labor and Employment, Denver, CO; **Melissa Martin**, Director of Pathways, Career and Technical Education (CTE), CO Community College System, Denver, CO; **Gina K. Wells**, Senior Analyst, Maher & Maher, Washington, DC

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**TOUR (Bus boards at 1:00 outside hotel lobby.)**

**AMT Live! Tour the FAME Award-Winning Career Pathway Program**

Visit a chapter of the 2013 1st-place Career Pathways Partnership Excellence Award winning program. When the Advanced Manufacturing Technician (AMT) Program, part of the Federation for Advanced Manufacturing Education (FAME), won the award, only eighteen employers were involved. Today it has grown to more than 300 employers in nine states. Representatives from all pathway steps will be present (employers; K-12; two-year, four-year, and master’s level postsecondary; supporting organizations). Learn about the program’s unique work-emulation learning environment; trendsetting embedded educational practices; cooperation and coordination at all levels; and engagement with economic development. The KY FAME – Greater Louisville Chapter will host the event at Jefferson Community and Technical College.
This year’s color guard is provided by Seneca High School under the direction of Sergeant Major David Compton in Louisville. The National Anthem will be played by Steve Buttleman, bugler for Churchill Downs.

Thursday 8:30–9:45
Grand Ballroom A

Opening Session

Moderator
Debbie Mills
NCPN Director

Welcome
Claudia Maness
NCPN Associate Director

KEYNOTE

Work Ethic: The Must-Have Skills for the 21st Century
Josh Davies
CEO, The Center for Work Ethic Development

With the rapid change taking place in every sector of the workforce, a set of skills has emerged as the must-haves for the future. Sometimes called soft skills or foundational behaviors, employers simply call them Work Ethic. Nearly 9 out of 10 hiring managers nationwide say work ethic is their most important factor in hiring, yet fewer than 1 in 5 people have these workplace skills. Learn how to build these skills in your existing academic and technical courses and prepare your students for the 21st century workforce. You don’t want to miss this motivational keynote.

The Opening Session is immediately followed by a snack break in the Exhibit Hall from 9:45 to 10:30.
Exhibits open 9:30–4:30.
For over ten years, IMCA, the Dominican Republic Caterpillar dealer, has been sponsoring initiatives across its country to enhance the quality of technical education. The results of these initiatives for students and businesses have been significant. The presenter will share outcomes, recommendations, and lessons learned for building and sustaining long-term business-education partnerships.

Pedro Esteva, CEO, IMCA, Santo Domingo, Dominican Republic

After years of effort to reauthorize the federal CTE Perkins program, Public Law 115-224 is now a reality. In this session, Michael Brustein will explain the changes between the new and old law, provide a timeline for implementation, and share with attendees what they need to know to get ready for Perkins V. He’ll also cover key changes to the definitions of CTE and special populations, revisions to accountability, the development of the needs assessment and local application, and, significantly, changes to Section 135 on local use of funds. Michael Brustein, Brustein & Manasevit PLLC, Washington, DC

The Research Coast Career Pathways Consortium (RCCPC) has successfully implemented an auto-articulation system that awards students career pathways credit upon entering the state college in their regions. This presentation will elaborate on this initiative and give attendees a step-by-step guide on how to implement it. Nicholas Brown, Indian River State College, Fort Pierce, FL

Providing opportunities for students to visit industry facilities is an important component of career exploration and work-based education. FLATE’s Regional Center for Manufacturing Education in Florida has organized hundreds of student tours during manufacturing month for many years. This presentation will share guidelines and tips for impactful student tours and integration of tours into career education. Marilyn Barger, Florida Advanced Technological Education Center (FLATE), Tampa, FL

Learn how a partnership between the REAL (Racine Engineering Arts and Leadership) School and Gateway Technical College is leveraging faculty expertise, campus resources, and dual credit programs to bring three career pathways to high school students. Learn how to structure a pathway around your schedule and your school’s needs. Katie Graf, Gateway Technical College, Elkhorn, WI; Lindsey Schmidt, Racine Engineering Arts and Leadership School, Sturtevant, WI
Concurrent Sessions, Thursday 10:30–11:15

Stopher (3rd floor)
Strands 1–4 • SPW • CAES • I
Growing a Workforce Through Registered Youth Apprenticeship: The Charleston Regional Youth Apprenticeship Model
Much of South Carolina’s success in building youth apprenticeship programs stems from the partnership in Charleston involving regional employers, Trident Technical College, Apprenticeship Carolina, local school districts, and the Charleston Metro Chamber of Commerce. Attendees will learn the keys to success in launching a similar program in their communities. Amanda Richardson, Apprenticeship Carolina, Columbia, SC; Mitchell Harp, Melissa Stowasser, Trident Technical College, Charleston, SC

Strands 1–4 • SPW • CAES • I

Breathitt
Strands 2,3 • AW • AS • I
Adult Career Pathways Think You Can Do It All Yourself? Building Partnerships for Success
Want to deliver a comprehensive program but think you won’t be able to on your own? You might be right. EPIC (Education Partnership for IT Careers) is a training partnership that addresses barriers by incorporating career services, case management, and job placement. Learn more and get solutions for your program. Derrick Washington, Byte Back, Washington, DC

Collins
Strand 2 • PAW • CFAES • B
Using Industry-Recognized Credentials to Help Students Obtain Academic Credit
This session will share lessons learned in the Michigan Coalition of Advanced Manufacturing initiative, a consortium of eight community colleges that received funding to enhance programs and student support services. The project helped 4,000 participants, many unemployed and underemployed, to obtain self-sustaining employment in the state’s advanced manufacturing sector. The participating colleges aligned their noncredit/CTE and credit advanced manufacturing training programs to five industry-recognized credentials, which led to articulation within and across their institutions. Deanna Khemani, Social Policy Research Associates, Oakland, CA; Julie Parks, Grand Rapids Community College, Grand Rapids, MI

French (3rd floor)
Strands 1,2,4 • SPAW • CFAES • I
How Labor Market Research Can Make Sure You Are on the Right Path
Your organization has a clear mission and vision. How do you know if what you are doing and plan to do are aligned with labor market projections? Join Brazosport College and EMSI as they discuss a collaboration using labor market data that guaranteed Brazosport College was on the right path. Anne Bartlett, Brazosport College, Lake Jackson, TX; Anna Brown, EMSI, Moscow, ID

Nunn
Strand 1 • SPAW • FAS • B
Adult Career Pathways Image Is Everything: Increasing Adult Education Enrollment Via Rebranding and Targeted Marketing
Does your agency’s brand and marketing accurately reflect its offerings and connect with its target audiences? Learn about the “why” and “how” of our award-winning national public awareness campaign as well as one state agency’s recent rebranding efforts. Participants will leave with campaign tools, replicable ideas, and the foundation of a marketing plan. Reecie Stagnolia, Kentucky Council on Postsecondary Education, Frankfort, KY; Missy Brownson Ross, Kentucky Skills U, Frankfort, KY

Beckham (3rd floor)
Strands 1–4 • SPAW • CFAS • B
Adult Career Pathways: WIOA Career Pathways Innovations: Connecting Adult Education to Workforce Development
This session will share how thirteen adult education providers in Chicago came together to staff a Career Pathways Navigator to represent their services at the local Pilsen American Job Center (AJC). The Career Pathways Navigator will share best practices, project management techniques, and data gathered during the process of transitioning adult learners into career pathways. Robert Guzman, Chicago Citywide Literacy Coalition, Chicago, IL

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2 Designing/Delivering Programs
3 Developing and Sustaining Partnerships
4 Workforce/Economic Development

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S Secondary
P Postsecondary
A Adult Education
W Workforce/Economic Development

**AUDIENCE**
C Counselor
F Faculty
A Administrator
E Employer
S Staff

**LEVELS**
B Beginner
I Intermediate
A Advanced
Jones (3rd floor)

Strands 1–4 • SPAW • CFAES • ③

Featured Update on National Career and Technical Education (CTE) Programs

The Office of Career, Technical and Adult Education (OCTAE) within the U.S. Department of Education is responsible for administering funding and program support provided under the Carl D. Perkins program. Hear about current projects and resources to support you and your Career and Technical Education (CTE) programs (http://cte.ed.gov).

Robin Utz, Branch Chief, U.S. Department of Education - Office of Career, Technical and Adult Education

Combs Chandler

Strand 4 • SAW • CFES • ①

Featured Workforce 2030: The Workplace Revolution

The modern workplace is constantly evolving, with some jobs going away (switchboard operator) and others being created (app developer). Every 30 years, a new wave of technology fundamentally changes the workplace. Assembly lines, computers, and the Internet all dramatically shifted the nature of work, and changed the American workplace. Looking ahead to 2030, there is another revolutionary wave that is going to crash the future of work in America. The combination of automation and artificial intelligence will create a revolution that will destroy not just jobs but potentially entire industries. Rather than sit back and hope, now is the time to prepare for the coming reality of 2030. We need to be developing the revolutionary adventures of the future! There will still be jobs, but they will require a different set of skills and abilities. Learn how to develop the skills that will make you and your job seekers relevant today and in the future. Don’t sit back and let the waves drag you down. Choose instead to ride the coming revolution—and come out on top! Josh Davies, The Center for Work Ethic Development, Denver, CO

Nunn

Strands 2,3 • SPAW • CFAS • ①

Adult Career Pathways

A Career Pathway Model for Adults: Kentucky’s Accelerating Opportunity Program

Accelerating Opportunity Kentucky (AOKY) is a co-enrollment career pathway model delivered through a partnership between Kentucky Skills U (KYSU, formerly KY Adult Education), the Kentucky Community and Technical College System (KCTCS), and the KY Career Centers (American Job Centers) for high school equivalency-seeking and low-basic-skilled adults. This session will provide an overview of the evolution of the model, logistics of the partnership, policy considerations, outreach and lessons learned. Cody Davidson, Kentucky Skills U, Frankfort, KY; Harmony Little, Kentucky Community and Technical College System, Versailles, KY

French (3rd floor)

Strand 2 • PA • CFA • ①

Systematizing Career Pathways: The New Way of Doing Business

This presentation will focus on scalable career pathways system development at your institution. Topics will include strategies to systematize and integrate pathways into existing college-wide processes and procedures, and how to overcome potential barriers. Participants will receive information on best practices and tools which can be replicated and customized. Jaime Spaciell, Gateway Technical College, Kenosha, WI

Carroll Ford

Strand 2 • SPAW • CFAES • ③

Apprenticeship Program Development: Educator, Employer, and Workforce Intermediary Models for Success

Apprenticeships are a rapidly growing career pathway model that enables workers to earn a paycheck while learning on the job and in the classroom. Attendees will gain tools for creating successful, industry-driven apprenticeship models that engage community and technical colleges and award completers industry-valued credentials and college credits counting toward academic certificates and degrees. Barbara Murray, TransPORTs, Virginia Beach, VA; Guy St. John, Oceaneering International, Chesapeake, VA; Deborah Williamson, Kentucky State Labor Cabinet, Frankfort, KY; Katie Adams, TransPORTs, Westminster, MD
Creating Innovative Pathways That Blend Secondary and Postsecondary Learning
Kentucky’s A2B Nursing Pathway grew out of a collaborative effort involving the Kentucky Department of Education, Jefferson County Career Technical College, Spalding University, and the Southern Regional Education Board. Session attendees will review the pathway, including its multiple off-ramps for students, and discuss how similar pathways could be created in other locales. Partners will discuss the challenges to development and share implementation tips. Scott Warren, Southern Regional Education Board, Atlanta, GA

Effective Reentry Program Development With the Aid of the Reentry Career Pathways Institute Website
This presentation will review the steps involved in developing an effective reentry program and how the newly created Reentry Career Pathways Institute website of CORD/NCPN can serve practitioners in this important field. Peter Moote, Reentry Career Pathways Institute, Seattle, WA; Richard C. Hinckley, CORD, Waco, TX

Technology Gamification: Building Fluency and Literacy in Math for At-Risk Youth
An engineer by training, John Huppenthal spent 20 years finding ways to motivate the unmotivated. Using a blend of gamification, individual and group accountability and speed, he crafted an ingenious way to help at-risk youths stop counting on their fingers, build confidence, and achieve astonishing gains in mathematical fluency. Nai Wang, KP Education Systems, Phoenix, AZ

“Grow Your Own” Career Pathways for Educators
“Grow Your Own” (GYO) programs hold promise for addressing teacher shortages. By creating pipelines of educators who reflect the diversity of their communities and remain in their areas, GYO programs are creating pathways that support students as they transition from high school to college and back into the teaching workforce. Marjorie Cohen, American Institutes for Research, Washington, DC

Industry and Education: Bridging the Skills Gap
This session will focus on how to develop partnerships for the purposes of improving program effectiveness, addressing the needs of the workforce, blending funding, and improving the quality and scope of a program. Amy Murphy, Melissa Lachcik, Joliet Junior College, Joliet, IL

Using Employer Resource Networks to Engage Business in Career Pathways Development
Employers play a vital role in helping the public workforce system and educational training providers understand the types of skills and competencies needed for specific occupations and industries. This information is vital in creating robust career pathway models that meet the needs of industry and workers. Come learn how the Southwest Michigan Employer Resource Network (SWMERN) is engaging employers, the public workforce development system, and educational training providers in career pathways planning at the local level. Deanna Khemani, Social Policy Research Associates, Oakland, CA; James Vander Hulst, ERN USA, Grand Rapids, MI; Dallas Oberlee, Southwest W.E. Upjohn Institute for Employment Research, Kalamazoo, MI
Box Lunch / Visit Exhibits and Kentucky Student Showcase

Exhibit Hall (2nd floor)  
12:15–1:30  
Box lunches can be picked up in the back of the Exhibit Hall. (There are tall tables in the Exhibit Hall. Additional seating is located in Grand Ballroom C.)

Concurrent Sessions

Jones (3rd floor)  
Strands 1–4 • SPAW • CFAES • ©  
**Featured**  
OCTAE Presents: Rethink CTE Through Perkins V  
As an opportunity to rethink our nation’s CTE programs, staff from the U.S. Department of Education’s Office of Career, Technical, and Adult Education (OCTAE), Division of Academic and Technical Education (DATE) will share the Department’s vision for the Strengthening Career and Technical Education for the 21st Century Act (Perkins V). Also, an opportunity for state and local practitioners to ask questions about any aspect of their CTE programs will be provided. Robin Utz, Branch Chief, U.S. Department of Education - Office of Career, Technical and Adult Education

Nunn  
Strands 1–4 • PAW • CAES • ©  
**Featured:** Panel of State Directors of Adult Education  
Innovative Career Pathway Strategies Position Adult Education as an Economic Catalyst  
This panel of adult education state directors will share how the Workforce Innovation and Opportunity Act (WIOA) is transforming the adult education system into a key economic catalyst and vital strategic partner at the state level.  
**Moderator:** Reecie Stagnolia, Vice President for Adult Education (Kentucky Skills U), Council on Postsecondary Education, and Chair, National Association of State Directors of Adult Education (NASDAE), Frankfort, KY.  
**Panelists:** Jennifer Foster, Deputy Director for Adult Education and Workforce, Illinois Community College Board, Springfield, IL; Sandy Crist, State Director for Adult Education and High School Equivalency, Mississippi Association of Adult and Community Education (MAACE), Jackson, MS

Brown  
Strand 2 • SA • CFA • ©  
**Beyond Suburbia: The Delicate Balance of Access and Accountability for Rural CTE Programs**  
This session will outline Idaho’s evolving approach to connecting students with high-quality CTE programs through an online platform in all parts of the state while maintaining its commitment to providing rewarding and meaningful CTE experiences for all students. Presenters will share lessons learned and promising practices and will offer Idaho’s policy framework as a model for other states to consider.  
**Steve Rayborn, Amy Lorenzo,** Idaho Division of Career and Technical Education, Boise, ID

Segell (3rd floor)  
Strands 1–3 • SPW • CFAES • ®  
**Bond, Build, and Bridge the Gaps: Pathways to College and Career Readiness**  
By providing venues for integration of academic curricula and the expectations of the workplace, technical centers can offer students challenging and life-changing pathways to college and career readiness. Attendees will learn how to maximize STEM, health sciences, and CTE cluster offerings while garnering support from business and industry, teachers, administrators, and parents. Jill Ranucci, Manor Independent School District, Manor, TX

Breathitt  
Strands 1–4 • SPAW • CFAS • ®  
**Adult Career Pathways**  
**Career Pathways for Families in Detroit: How One Non-Profit Is Making a Difference**  
Southwest Economic Solutions provides supportive programs for Detroiters that include education, career navigation, financial literacy, work readiness, and training—all free of charge. As attendees examine our model and compare it to their programs, they will gain insights that will help them to create and set goals to expand their delivery for workforce and adult education programs. Karyn Goven, Southwest Economic Solutions, Detroit, MI

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McCreary (3rd floor)

Strands 1–3 • SPAW • CFAES • 🧿

Changing Perceptions, Shaping Reality: Reimagining the Structure and Purpose of High School

How do schools create flexible, scaffolded programs leading to college credit and industry credentials and ensure buy-in from staff members and the community? Burnsville High School (enrollment 2500) has addressed this question by redefining student performance outcomes through strategies for planning, implementing, communicating, and evaluating a wall-to-wall pathway model. Kathy Funston, Dave Helke, Burnsville-Eagan-Savage Public Schools, Burnsville, MN

Beckham (3rd floor)

Strands 2–4 • PW • CFAES • 🧿

Actively Engaging Employers Boosts Recruitment and Gives Students the Skills That Get Them Hired

The National Convergence Technology Center’s Business and Industry Leadership Team (BILT) model engages industry leaders to co-lead the Center’s work. The BILT works in partnership with the Center to align curriculum with future workforce demands. Forsyth Technical Community College has adapted the BILT model to improve recruitment as well.

Attendees will learn strategies from educators and employers and receive free tools to promote engagement through the BILT model. Ann Beheler, National Convergence Technology Center, Frisco, TX; Matt Glover, Le-Vel Brands, Plano, TX; David Dinkins, Forsyth Technical Community College, Winston-Salem, NC; Shawn Meck, Progress Rail, Winston-Salem, NC

French (3rd floor)

Strand 2 • PA • A • 🧿

Adult Career Pathways Instructional Resources in the Kentucky Skills U Lesson Bank

Kentucky Skills U has created a repository of standards-based units and lessons, aligned with College and Career Readiness Standards and Kentucky Employability Standards. The lessons emphasize contextualized instruction, critical thinking, information analysis, real-world applications, technology, and workplace skills. Pamela Callahan, Sharon Johnston, Kentucky Skills U, Morehead, KY

Collins

Strand 2 • SPAW • CAS • 🧿

Maximizing Postsecondary Opportunities for Secondary Students Through Articulated and Dual Pathway Credit

North Carolina has established a statewide high-school-to-community-college articulation agreement with CTE programs and has encouraged local agreements. Cumberland County Schools encourages CTE students to “pick up their PACE” toward college credits through the PACE initiative (Pathways for Articulated Credit Earned). This session will focus on how to set up articulation agreements to promote smooth student transitions and decrease duplicated efforts for students.

The presenter will also discuss the dual-credit program. Taneka Williams, Cumberland County Schools, Fayetteville, NC

Carroll Ford

Strand 2 • SA • FA • 🧿

Measure Up! Measuring the Quality of Implementation of State Standards

Participants will discuss the quality of classroom instruction and how standards are being addressed and implemented in the classroom. As the state of Texas has implemented state standards, instructors must be trained, coached, and observed using the standards. DCCCD, in conjunction with the AEL Dallas Consortium, has developed a tool for walk-through observations that specifically address standards. The presenters will share the process of building the criteria for the rubric, links to informational videos created by the consortium for implementing standards, and a sample rubric template.

Monica Stanberry, Dallas Community College District and AEL Dallas County Consortium, Dallas, TX; Kenneth Goffney, Dallas Community College District, Dallas, TX

Stopher (3rd floor)

Strands 1,2,4 • SPAW • CFAES • 🧿

Providing Opportunities for Women in Energy Related Careers (POWER Careers): Lessons Learned After Three Years

Leaders report on three years of an NSF ATE pilot project and share promising practices in the guidance of women from career awareness to recruitment to graduation from AAS engineering technology programs. Practices include high-touch pre-engagement, peer tutoring, counseling, and active industry and alumni involvement. Audience experiences will be sought. Nancy Louts, Lawrence Beatty, Jodi Johnson, Idaho State University, Pocatello, ID

Clements

Strand 2 • SA • CFA • 🧿

Rigorous High School Math Lessons Contextualized into Construction, Manufacturing, and Entrepreneurship

This presentation will cover the nuts and bolts of running a real, successful business in high school Algebra 1 and manufacturing class and building real houses in high school geometry for a nonprofit. Both are happening at our high school. Attendees will participate in two activities they can use in their classrooms and will learn how to create their own. Tom Moore, Loveland High School, Loveland, CO
America’s construction and maintenance industries create and maintain our nation’s economic vitality through a broad spectrum of industrial, commercial, and residential projects. At present, those industries are anticipating a shortage of over 1.5 million skilled craft professionals by 2019. Industry owners, contractors, and trade associations are eager to work with educational partners in implementing industry-based training that leads to industry recognized credentials and provides multiple paths to gainful employment in high-demand career fields. Bradley A. Kibbe II, Florida Masonry Apprentice and Educational Foundation, Orlando, FL

McCreary (3rd floor)
Strand 3 • SPA • CFA • ③
Advocacy, It’s What’s for Leaders
The presenters will discuss the role of advocacy for teachers, administrators, and leaders. Learn more about ways you can navigate the world outside your classroom to connect with parents, administrators, and even policymakers as they make decisions about your program and CTE. Amy Lorenzo, Steve Rayborn, Idaho Division of Career and Technical Education, Boise, ID

Stopher (3rd floor)
Strands 2, 4 • SAW • FAS • ④
Adult Career Pathways
Career Pathways Requirements of WIOA
As states move ahead with the implementation of WIOA, developing career pathways is critical to their success. This session will provide an overview of the career pathways requirements of WIOA, a walk-through of the Department of Labor’s Career Pathways Tool Kit, and examples of successful models of career pathways from around the country. Mitch Rosin, Aztec Software, New York, NY

Breathitt
Strand 1 • SPA • CFA • ③
Technology Cooking Your Way to a Career: Blending Technology and Scenario-Based Learning in the Culinary Classroom
Technology, problem solving, skill sets—oh my! Participants will be exposed to a natural flow of career paths through a blend of technology and scenario-based learning in a culinary classroom. Shared ideas and examples of classroom activities will help attendees turn up the fun in their own classrooms. Amy Cryan, Janet Meyers, Oak Lawn Community High School, Oak Lawn, IL

Collins
Strands 1, 2 • SPW • CFAES • ③
Educator Bus Tour: Raising Career Awareness by Connecting K-12 With Industry
Learn how Columbus State Community College plans and implements full-day interactive bus tours, giving high school educators the opportunity to tour local companies in high-demand industries. Best practices in planning, project management, and communication will be shared, enabling attendees to more easily create events that connect K-12 and industry. John Sherwood, Tara Sheffer, Columbus State Community College, Columbus, OH

Beckham (3rd floor)
Strands 1–4 • SPAW • CFAES • ①
Florence City Schools Launch Career Development With Internship and Apprenticeship Opportunities
This session will provide information that will help attendees cultivate business-education partnerships that support the creation of internship and apprenticeship opportunities for students. Participants will learn that the purpose of these partnerships is to enhance the workforce development process while simultaneously equipping student employees to recognize the correlation between school and real-world applications. Corey Behel, Florence City Schools, Florence, AL

Snack Break in Exhibit Hall • 2:15–2:45
Clements
Strands 1–4 • SW • FES • B
What Does Quality in Technical Education Look Like? An Employer Perspective
Many different indicators can measure the quality of technical education programs. The presenter will share what quality looks like in technical education from an employer perspective and the elements that should be taken into consideration when defining a curriculum to ensure an outcome of technical graduates prepared for the workforce of tomorrow. Catherine Piña, Business Initiative for Technical Education, Santo Domingo, Dominican Republic

Jones (3rd floor)
Strands 1–4 • SPAW • CFAES • B
Integrating Professional Behaviors and Soft Skills Development in Technical Education
This session will address the need to improve the quality of students who complete technical education programs as institutions seek to produce graduates who meet the expectations of business and industry. The session is specifically relevant to audiences invested in workforce development and career success initiatives. Monica Stewart, Bruce Fritz, Sheree Utash, WSU Tech, Wichita, KS

Brown
Strands 1–4 • SPAW • CAS • B
Lessons Learned in Leading Career Pathways Partnerships
How do Career Pathways partnerships really work? In Pennsylvania, four regional Career Pathways partnerships have been formed with help from the Pennsylvania Department of Education. Attendees of this session will take away ideas and lessons from a leader of the Berks County Career Pathways Alliance and the state project coach. Hans Meeder, National Center for College and Career Transitions (NC3T), Columbia, MD; Daniel Richards, Berks County Intermediate Unit, Reading, PA

Segell (3rd floor)
Strands 1–4 • SPAW • CFAES • B
Piedmont Community College (PCC): A Leader of Innovative Manufacturing Programs in North Carolina
Learn how Piedmont Community College, a small rural college, has developed innovative programs in advanced manufacturing through grants and employer support. Seven years ago PCC became the first North Carolina community college to deliver MSSC (Manufacturing Skills Standards Council) and Siemens training opportunities in North Carolina, providing models for delivery that are unique to the North Carolina Community System’s continuing education programs. Angela Webb, Doris Carver, Mike Cobb, Piedmont Community College, Roxboro, NC

Nunn
Strand 1 • SAW • CFAS • B
Adult Career Pathways: Use the MyGED® Resources to Help Adults Find Careers
The journey does not end with passing the GED®. GED Testing Service® has tools built into its MyGED® portal designed to help adults take the next steps in finding careers. Attendees will learn how to help adult students with typical life barriers utilize these resources to obtain family-sustaining wage jobs. Rae Smith, Sharon Johnston, Kentucky Skills U, Frankfort, KY

Coe (3rd floor)
Strands 1–3 • SPW • CFAE • B
Work-Based Learning: Innovations to a Classic Design
It’s a perfect storm—a booming economy with a lack of technically skilled labor. Innovations in work-based learning can close the technical skills gap. Attendees will learn strategies that identify the right students, leverage advanced on-the-job training opportunities, and reinforce technical education through pathway design to calm the storm. Tim Rall, Amanda Daniels, GPS Education Partners, Brookfield, WI

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STRANDS 1 Career Counseling, Career Development, and Career Advising  2 Designing/Delivering Programs  3 Developing and Sustaining Partnerships  4 Workforce/Economic Development
FOCUS AREAS S Secondary  P Postsecondary  A Adult Education  W Workforce/Economic Development
AUDIENCE C Counselor  F Faculty  A Administrator  E Employer  S Staff
LEVELS B Beginner  I Intermediate  A Advanced
Toyota FAME Special Session

Thursday 3:45–4:45
Grand Ballroom A

Moderator
Debbie Mills
Director,
National Career Pathways Network

Keynote
Susan Elkington
President, Toyota Motor Manufacturing, Kentucky, Inc.

Keynote
Rex Bolinger
Senior VP and Chief Partnerships Officer,
Project Lead The Way

Closing Remarks
Gardner Carrick
VP, Strategic Initiatives,
The Manufacturing Institute

Toyota/FAME Career Pathway: Two Million!
Two million! That’s the number of manufacturing jobs expected to go unfilled over the next decade. During the Special Session hosted by Toyota and FAME (Federation for Advanced Manufacturing Education), Susan Elkington, president of Toyota’s largest plant in the world (TMMK in Georgetown, Kentucky), will discuss Toyota’s support for Career Pathways initiatives and partnerships.

Rex Bolinger will share how PLTW (Project Lead The Way) is addressing critically pressing workforce needs by inspiring, engaging, and empowering PreK-12 students.

The keynotes will be followed by a panel discussion of Career Pathways as a proven strategy for addressing industry’s worker shortage, gender and minority gaps, and the challenge of attracting global-best talent. Panelists Susan Elkington and Rex Bolinger will be joined by Stacey Hughes, Human Resources Manager, Logan Aluminum; and JennyLynn Hatter, Chief Academic Officer, Harrison County School District.

Toyota, FAME, and PLTW will also announce a new and unprecedented Career Pathway achievement.

All attendees are invited to a reception in Combs Chandler immediately following the Special Session.
Building a Strong Academic and Career Planning Program in a Rural School

We created our academic and career planning program to be unique to our district and students. While most schools use software, we have built our system from the ground up to fit our needs. We are now seeing results through higher graduation rates, dual-credit agreements, and work-based learning opportunities. Jen Jackson, Nekoosa School District, Nekoosa, WI

Career Development: A Career Tech Program for At-Risk Students With Disabilities

Career Development is a career tech program for students with disabilities. The program focuses on career exploration and strategies for capitalizing on individual strengths and interests. Programming includes credentialing, job shadowing, internships, and employment. The intended outcome is that these at-risk students will graduate and secure living-wage employment. Denise Giesecke, Amy Schakat, South-Western City Schools, Grove City, OH

Collegiate High Schools: A Partnership to Enhance Student Academic and Career Pathway Options

Attendees will learn about the concept of collegiate high schools in the state of Florida, specifically the evolution of the different models involving St. Johns River State College and its local school district partners. The session will explore student eligibility and selection, communication strategies, and instructional program configurations. Edward Jordan, St. Johns River State College, Palatka, FL

Jump-Start Students’ Careers: Pathway Certificates of Proficiency

This session will provide the framework of how pathways are working for Utah Valley University and the surrounding region while discussing the importance of starting a student on a pathway in high school. Attendees will learn how to construct their own high school pathway that builds into the local community college or university. Torrie Costantino, Kim Chiu, Utah Valley University, Orem, UT
Marketing Your Transferable Skills
Assessing one’s skills is essential for all job seekers. This workshop will provide tools designed to help job seekers, from students to seasoned professionals, assess their transferrable skills and rebrand and market those skills in ways that are relevant to potential employers and positions. MaryAnn Verdolino, Suffolk County Community College, Brentwood, NY

NIU Engineering at RVC: Taking Vertical Alignment to the Next Level
To develop and retain local talent, Rock Valley College (RVC) and Northern Illinois University (NIU) established a Bachelor of Science in Mechanical Engineering program at RVC’s campus to facilitate seamless transition from high school to RVC to NIU to career. Learn what steps have been taken to ensure a successful program and partnership. Gina Caronna, Center for P-20 Engagement, DeKalb, IL; Kelly Cooper, Rock Valley College, Rockford, IL

Serving Immigrant Students With the Integrated Education and Training (IET) Academy Model
Attendees will learn how to design and structure a full range of choices centered on Integrated Education and Training for immigrant students. The presenters will share ideas on how to implement contextualized lessons in their classrooms that prepare students to be successful in work-related training. Delia Watley, Irving Independent School District and Dallas County Community College District, Irving, TX; Gloria Smith, Dallas County Community College District, Dallas, TX; Benj Sampson, Fuel Education, Irving, TX

Successful Partnerships: Technician Education and Workforce Fundamentals
This session will provide examples of successful partnerships involving technical colleges, state and private workforce development organizations, and state universities. Attendees will learn best practices that will help them to recreate successful partnerships in their states. Eddie Bennett, Center for Workforce Development, Clemson University, Clemson, SC; Carl Washburn, Greenville Technical College, Greenville, SC

Using the HSTW/TCTW Framework for Continuous Improvement and Whole-School Reform
Attendees will learn how the new High Schools That Work/Technology Centers That Work (HSTW/TCTW) Framework (consisting of nine key practices and six design principles) can be customized for continuous improvement efforts focusing on structured professional development for school improvement. The new framework places a strong emphasis on career pathways that provide students with a challenging academic core linked to high-quality CTE, blurring the lines between secondary, postsecondary, and workplace learning opportunities. Linda Smith Floyd, Southern Regional Education Board, Atlanta, GA
Concurrent Sessions

Fri 9:15–10:00

Carroll Ford
Strands 1–4 • SPAW • CFAES • 3
**Featured Achievement in Career Engagement**
Attendees can expect to learn about ACE (Achievement in Career Engagement), a process of developing work-based learning skills through an endorsement program based on levels of accomplishments. Attendees will benefit from learning how ACE provides students a digital profile page to showcase skills and capabilities in the workplace. **Clabe Slone, Rebecca Roach, Jennie Sloan, Carla Kersey, Kentucky Educational Development Corporation, Lexington, KY**

Clements
Strands 2–3 • PA • CFA • B
**Career Pathways Award Honorable Mention**
You Can Be Both! Viewing a Law Enforcement Academy Through a STEM Lens
Reseda Charter High School’s Police Academy Magnet opened in 1998. With “Preparing to Serve” as its motto, this Career Pathway’s mission has remained to prepare interested students for law enforcement careers. This program also proves itself to be “STEMworthy” in the process, demonstrated through its curriculum and annual CSI event. **Alise Cayen, Reseda Charter High School Police Academy, Reseda, CA**

Combs Chandler
Strands 1–4 • SPAW • CFA • B
Building a Strong Partnership to Sustain Student Success
This session focuses on the features of partnership and strategies used to grow a solid apprenticeship readiness program for high school students through a school to work summer program. The pathway from high school to registered apprenticeship can be a daunting journey given the mixed messages, incomplete understanding of the process and commitment required to succeed. However, it’s amazing the impact you can have when the right partners come together at just the right time. Join us as we share our story of strong partnerships and assist in creating new approaches for you to sustain your students’ success. **Cynthia Scherphorn, Oakland Schools, Waterford, MI**

Nunn
Strands 3 • SPAW • FAS • 3
**Adult Career Pathways** Forging Real Intradepartmental Collaboration to Facilitate Program Success
This session will describe the evolution of a collegial relationship between a member of Kentucky Skills U’s professional development team and a member of the administrative services team that provided a catalyst for powerful intra-agency collaboration. A timeline of the evolution will show how the collaborative process resulted in improved alignment of services. Innovative GED, TABE, and performance metric-aligned resources will be shared. **Lori Looney, Natalie Cummins, Kentucky Skills U, Frankfort, KY**

Breathitt
Strands 1,2 • SPA • CFA • B
Helping Today’s Students Find Their Place
If you asked students, “What does a civil engineer do?” what sort of answer would you get? Most students have probably never thought about it. This interactive session will share AB Tech’s proven strategies for helping students learn about careers they have probably never even thought about, along with strategies for reaching out to ALL students. Attendees will also gain ideas and materials for increasing female enrollment in technical programs. **Jim Sullivan, Pamela Silvers, Asheville-Buncombe Technical Community College, Asheville, NC**

Segell (3rd floor)
Strands 3,4 • SPAW • CFAES • B
How to Create Win-Win Relationships with Business Partners
Are you having a hard time engaging industry and business partners? Not sure where to start when building partnerships? In this session, the presenters will share their win-win solutions for creating industry-education partnerships and how industry input is used to enhance learning and the local workforce. The presenters will also share strategies for building relationships with industry. **Rebecca Bettencourt, E&J Gallo Winery, Modesto, CA; Jeff Albritton, Modesto City Schools, Modesto, CA**
Concurrent Sessions, Friday 9:15–10:00

Brown
Strands 2 • SPAW • CFAES • ①
Implementing Career Pathways in Vermont: Challenges and Opportunities
The presenters will explain the process of implementing Career Pathways as a system in the context of existing and new policies and programs that relate not only to career and technical education but also to all educational programs. Attendees will learn how that system is created using specific programs in targeted regions. Oscar Aliaga, Jay Ramsey, Vermont Agency of Education, Barre, VT

Beckham (3rd floor)
Strands 1–4 • SPAW • CFAES • ③
Integrating CTE Into Core Subjects Through Project-Based Learning
Attendees will learn proven techniques in contextualization and integration of core subjects with CTE through project-based learning. Attendees will receive contextualized units for algebra 1 and geometry. This model is more than simulations. The goal is student mastery and narrowing of the achievement gap. Scott Burke, Green Mountain High School, Lakewood, CO

Coe (3rd floor)
Strands 3,4 • AW • AES • ③
Adult Career Pathways SOS! Learn How WIOA Dollars Can Be an Employer “LifeSaver”
Attendees will learn how local workforce development boards are able to assist business through WIOA employer services. Focus will be given to the WIOA federal dollars that are available to help with training costs. Miranda Lough, Kelsie Neal, Workforce Development Board Region 4 WV, Parkersburg, WV

McCreary (3rd floor)
Strands 1,2 • SPAW • CFAES • ③
Technology Surveys Your Way: Innovative Data Collection Using Google Forms and Google Sheets
Guilty of giving pen and paper surveys and then data entering the information on the back end? Have you ever thought that creating student resumes or grading quizzes could be more automated? Learn how Google Forms and Google Sheets can be utilized in innovative ways to help you become more efficient. Katie Mehin, West-MEC / Western Maricopa Education Center, Phoenix, AZ

French (3rd floor)
Strands 1,2,3 • SPAW • CFAS • ①
VocRehab Vermont: Expanding Career and College Readiness for High School Students With Disabilities
Attendees will learn how VocRehab Vermont and Community College of Vermont have created an innovative framework for preparing high school students with disabilities for career paths through enhanced work-based learning, college exploration, and assistive technology supports. A five-year research study will assess the impact of Linking Learning to Careers. Richard Tulikangas, Brian Guy, VocRehab Vermont, Waterbury, VT; Elizabeth King, Community College of Vermont, Montpelier, VT

Beverage Break in Exhibit Hall
10:00–10:30
Bridging Alternative Education to College Entry and Success
Join us for a game in which the players navigate the college experience from the student’s point of view. Experience the frustration of systemic hurdles, conflicting communication, and general helplessness. The presenters will demonstrate barriers to college access in alternative education while highlighting six promising practices proven to be effective in overcoming those barriers. Amal Amanda Issa, Career Ladders Project, Oakland, CA; Debra DiBiase, SIA Tech, Oceanside, CA

Development of an Education-Specific National Accreditation Program Using a National Core Curriculum
The presenter will discuss the process for developing a discipline-specific national accreditation program. Attendees will also learn about the steps that Weld Ed, an NSF National Center of Excellence, has used to develop this type of low-cost accreditation program. The program can be used as a model for other disciplines. Mark Baugh, Weber State University, Ogden, UT

Adult Career Pathways Impact and the Adult Literacy XPRIZE Communities Competition
The Adult Literacy XPRIZE Communities Competition is a national challenge to expand access to education for adult learners through the use of technology. Competitors will compete in two phases to win a share of $1M in cash prizes by distributing free, proven-effective mobile learning apps that adults—both native speakers of English and English language learners—can use anytime, anywhere to improve their literacy skills. In this presentation, attendees will have the opportunity to register as a competitor, learn how to receive free adult literacy apps, and prepare to compete for a chance to win their share of $1 million. Monica Groves, XPRIZE, Culver City, CA

Revitalizing STEM Education Through MAGNET’s Early College, Early Career Youth Manufacturing Apprenticeships
Come hear about MAGNET’s ECEC program, a groundbreaking manufacturing pre-apprenticeship focused on helping inner-city and rural high school students connect to long-term, rewarding careers in manufacturing. By weaving together eight critical programmatic elements, ECEC offers a replicable, scalable solution that is revitalizing STEM education in Northeast Ohio. In this interactive session, we’ll examine what it takes to create inclusive, diverse apprenticeship programs in local communities. Ethan Karp, Autumn Russell, MAGNET: The Manufacturing Advocacy and Growth Network, Cleveland, OH

Storytelling and Voting with Your Feet: Creative Contextualized Instruction
This session will provide techniques for engaging students in class along with strategies for addressing oral, verbal, kinesthetic, and emotional learning—all while keeping the learning contextual and fun. Physical participation is required, so attendees should come prepared. Jim Utterback, Palm Beach County School District, Boca Raton, FL
Concurrent Sessions, Friday 10:30–11:15

**Breathitt**

**Strand 2 • SAW • FS • B**

**Adult Career Pathways Integrated Training**

Programs in Ohio’s In-Demand Careers: Preparing Students for High-Wage Jobs Through Stackable Credentials

Penta Career Center offers stackable and marketable credentials that help students move into high-wage jobs. Participants will learn how to enhance traditional face-to-face technical training and integrate contextualized learning designed to improve literacy, numeracy, and soft skills. **Jessica Arbuckle, Pamela Martin**, Penta Career Center, Perrysburg, OH

**Collins**

**Strands 1–4 • SPAW • CFAES • B**

**Where Uber Meets Successful Career Coaching**

Virtual coaching services that leverage 21st-century technology-based communication tools not only enhance career coaching services but can make a significant impact in supporting individuals on their career pathways. Join Mentored and Dynamic Works Institute to get a first-hand look at new ways to change service delivery across the country. These exciting models work across all populations including veterans, youth, individuals with disabilities, rural, low-income, and those reentering the workforce. **Terri Leisten**, Dynamic Workforce Solutions, Colleyville, TX; **David Garza**, Mentored, Englewood Cliffs, OH

**Nunn**

**Strand 4 • SPAW • CAES • I**

**Adult Career Pathways Managing Change: The Human Capital Side of Change Management**

Reauthorization of the Workforce Innovation and Opportunity Act (WIOA) and its ripple effects (e.g., legislation, regulation, policy) have amplified the need for change management. One of the most important aspects of managing change is supporting staff/employees. The session will investigate change management frameworks and focus on best practices (e.g., effective coaching, communication) and overcoming challenges associated with change management and people. **Jacqueline Korengel**, Kentucky Skills U, Kentucky Council on Postsecondary Education, Frankfort, KY

**Carroll Ford**

**Strands 2–4 • SPAW • CFAES • B**

**Worksite Visits to Internships: The LA HI-TECH/Snap Inc. Case Study**

Presenters will explore the role of workforce intermediaries and projects co-designed with industry, and share how a strong partnership is changing the tech industry. Participants will take home a real-life example of the evolution of a partnership that began with a career fair and led to a redesigned internship program. **Sherry Shojaei**, Career Ladders Project, Oakland, CA; **Lindsey Heisser**, Bixel Exchange, Los Angeles, CA

**Jones (3rd floor)**

**Strand 2 • P • F • B**

**Measuring Collaboration with Simulated Electronics Problems**

This National Science Foundation-supported project is detecting and measuring collaboration. As three students work together on separate computers to solve a simulated electronics problem, we log every action and communication between them. Learn about a paid opportunity to serve as a pilot site with your electronics students this fall. **John Chamberlain**, CORD, Waco, TX

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**STRANDS**  
1 Career Counseling, Career Development, and Career Advising  
2 Designing/Delivering Programs  
3 Developing and Sustaining Partnerships  
4 Workforce/Economic Development  

**FOCUS AREAS**  
S Secondary  
P Postsecondary  
A Adult Education  
W Workforce/Economic Development  

**AUDIENCE**  
C Counselor  
F Faculty  
A Administrator  
E Employer  
S Staff  

**LEVELS**  
G Beginner  
I Intermediate  
A Advanced
Advanced Robotics for Manufacturing (ARM): An Introduction and Call to Action
ARM is the leading catalyst of robotics innovation and expertise, accelerating growth in U.S.-based manufacturing and high-value careers. Strategically solving technological challenges in robotics, preparing a skilled workforce, and creating a supportive ecosystem will enable the United States to regain manufacturing dominance and reshape many essential industries. Workforce is key! Stephen Catt, Advanced Robotics for Manufacturing (ARM), Pittsburgh, PA

Combs Chandler
Strands 2, 3, 4 • SAW • AES
Career Pathway Program in Healthcare: Do Partners Have Common Goals?
High schools have many students interested in healthcare careers, and most medical centers have many open positions in healthcare that are difficult to fill. The basic foundation of a partnership for building a pathway into these careers is obvious. But do all partners have common goals? In 11 years of building such a pathway at our medical center, we have learned (often the hard way) where agendas intersect and where they sometimes diverge. Peter Blain, Baystate Medical Center, Springfield, MA

Brown
Strands 1, 2 • SPAW • FAS
Adult Career Pathways
Contextualize Your Class: Developing Relative Integrated Education and Training (IET)
Attendees will be provided easy-to-use methods of contextualizing their courses. In today’s adult education setting, creating effective contextualization is the key to IET success. Participants will take away educational tools for immediate use in their programs. Trey Daniel, Education Service Center 6, Huntsville, TX

Collins
Strands 1, 2 • SPAW • CAS
From Summer Camper to College Student: Program Pathways for Youth
The Southern Alberta Institute of Technology (SAIT) in Calgary, Alberta, has developed a youth engagement strategy in which children and youth begin their journeys of career and program exploration as young as the 4th grade. Learn how SAIT’s summer camp program engages youth in career and program exploration well before they have completed high school and how this program serves the institution’s overall enrollment strategy. Rozlynn Wick, Southern Alberta Institute of Technology, Calgary, AB, Canada

Clements
Strand 1 • SPAW • CFAS
Adult Career Pathways
Don’t Be Humble! Share the Success of Your Adult Students
Adult education students have some of the most inspiring stories around. One of the best ways to promote your program is to make personal connections and highlight student success. Share the good news! It’s time to shine and let others know how your program is making a difference! Melissa Lachcik, Michelle Lyman, Libby Budd, Joliet Junior College, Joliet, IL

Carroll Ford
Strand 1–4 • SPAW • CFAS
Kentucky Is Getting on TRACK with Youth Apprenticeship in Automotive!
The Tech Ready Apprentices for Careers in Kentucky or TRACK Youth Apprenticeship program has been recognized as a top best-practice model in the country! Find out what partnerships are necessary to replicate in your state and discover the benefits for employers, students and districts. Also learn how Kentucky is providing a solution to the worker’s compensation barrier for employing 16- and 17-year-olds. Mary Taylor, Kentucky Department of Education Office of Career and Technical Education, Frankfort, KY; Johnny Pittman, Oxmoor Auto Group, Louisville, KY

Breathitt
Strand 1 • SPW • CFES
Quest Summer Youth Program
Come learn about Indian River State College’s Quest Summer Youth Program, where students ages 14–16 spend three weeks exploring career clusters to identify their career interests. Participating students use technology tools to access and research career information and tour facilities in the areas of public safety, biotechnology, digital media, fine arts, E-learning, and health science. Lila White, Indian River State College, Fort Pierce, FL
Awards Lunch / Closing Session

Friday 12:30–2:00
Grand Ballroom A

Greeting and Awards
Claudia Maness
NCPN Director

Awards Sponsor
Pedro Esteva
IMCA-CAT

KEYNOTE
Pathways and Prosperity: Student and Community Success
Bryan Albrecht, President, Gateway Technical College, Kenosha, WI

Dr. Albrecht will share a vision for how education and workforce pathways lead to student success and sustain local economies. Connecting education with workforce credentials secures workforce readiness and reduces the talent gap.

NCPN Career Pathways Partnership Excellence Award Judges
Dennis Parker, Toyota North America, Georgetown, KY
Richard Hinckley, Workforce Development Chair (CORD, Waco, TX)
Jeraline Johnson, Leadership Development Chair (School District of Palm Beach County, West Palm Beach, FL)
Rebecca Bettencourt, Employer Engagement Subcommittee Co-chair (E&J Gallo Winery, Modesto, CA)
Florida Pathways to Apprenticeship is a program of the Florida Masonry Apprentice and Education Foundation (FMAEF). FMAEF was created in 2002 to add new and to expand existing apprenticeship programs and offer education to the masonry industry.

FMAEF works closely with the Masonry Association of Florida (MAF) to establish industry standards on curriculum and credentialing. Employers and other support partners donate tools, equipment, and materials. FMAEF is also supported through the Florida Concrete Masonry Education Council (FCMEC).

FMAEF has developed an extensive network of employers who speak with construction classes, participate in open houses and career fairs, and provide shadowing and internship opportunities for students. Employers participate in local, state, and national Skills USA competitions as mentors, contest chairs, and judges.

Prospective participants can enter the program at multiple levels. Through pre-apprenticeship training completed at the high school level, at-risk youth programs such as Youth Build and AMI Kids, or any of the eight Florida Department of Corrections programs, students who have completed NCCER (National Center for Construction Education and Research) knowledge and performance levels can articulate credit earned into apprenticeship programs. The program also provides a process for adults seeking to enroll and establish proof of past experience.

By providing continuing options for articulation from pre-apprentice training into full masonry apprenticeship programs, FMAEF has developed a pipeline of talent for participating contractors and companies feeling the strain of a limited skilled labor pool. The commitment to using nationally recognized curriculum with stackable credentials provides for a growth model where employers can continue to educate and develop leaders in their prospective fields.
HONORABLE MENTION: Reseda Charter High School Police Academy Magnet

The Reseda Charter High School Police Academy Magnet opened in 1998. With “Preparing to Serve” as its motto, this Career Pathway’s mission is to prepare interested students for law enforcement careers, establish a bond between juveniles and local police officers, and produce highly capable citizens who will graduate from high school, go on to college, and serve in their communities.

This nationally recognized program commits students to a rigorous course of study involving honors curriculum; career technical education electives; a college course; physical training; and community service. In addition to the CTE teacher, a Los Angeles police officer and Los Angeles Unified School District police officer are assigned full-time positions in the program.

Junior and senior cadets have the opportunity to job shadow as interns at local police stations during their winter, spring, and summer breaks. Cadets interview for intern positions and are assigned shifts and commanding officers. Interns provide customer service, work in the detective’s office, and assist the watch commander with street camera observation. The department helps these students gain skills in mediation and de-escalation techniques.

Reseda Charter High School’s Magnet was named a silver medal recipient by USA Today and a distinguished program by Magnet Schools of America two years in a row for its graduation, attendance, and college acceptance rates.

HONORABLE MENTION: Port Houston Partners in Maritime Education

Port Houston Partners in Maritime Education (PHPME) is a high school through graduate school career pathway designed to help students acquire the education, skills, and credentials necessary to succeed in the maritime industry. Port Houston launched the program in 2009, along with industry leaders, educational institutions, and business organizations to address the local maritime industry’s aging workforce. Six high schools in four school districts adjacent to Port Houston offer the Maritime Academy pathway.

Participating students gain a deep awareness of maritime industry careers, learn valuable STEM-based industry knowledge, use state-of-the-art simulation equipment, and earn industry-valued credentials and dual credits. Outside the classroom students tour industry worksites, attend maritime industry forums, participate in internships, and earn college scholarships.

The four-year TEA-approved high school curriculum is based on a U.S. Maritime Administration (MARAD) model. The pathway introduces students to several industry sectors: maritime logistics, transportation and distribution; piloting and deck operations; maritime administration; marine engineering and naval architect; security and technology; and U.S. Coast Guard, Customs, and Border Patrol.

Since its inception, the program has had over 1200 students participate and in 2017-2018, there were 155 maritime high school graduates.

In addition, Port Houston collaborated with Texas Southern University (TSU) to develop a four-year academic degree program in Maritime Transportation Management and Security as well as developed partnerships with Texas A&M University Galveston, University of Houston, Houston Community College, Lee College, and San Jacinto College, all of which have maritime programs.
Congratulations!

2017–2018 NCPN Leadership Development Academy Graduates

Cynthia Scherphorn, Oakland Schools, Waterford, MI
Tracey Petty, School District of Philadelphia, Philadelphia, PA
Claudia Lilley, Literacy Volunteers of America-Santa Cruz County, Nogales, AZ
Vicki Fine, Valencia College, Orlando, FL
Linda Cox, William S. Hart Union HS District, Santa Clarita, CA
Harmony Little, Kentucky Community & Technical College System, Versailles, KY
Althea Chaderton, Workforce Solutions for North Central Texas, Arlington, TX
Taneka Williams, Cumberland Co Schools CTE, Fayetteville, NC
LaShonda Taylor, Alameda County Office of Education, Hayward, CA
Nzingha Williams, Central Piedmont CC, Charlotte, NC
Carrie Alease Copelin, Center High School, Center, TX
Nathan Daniel, Education Service Center 6, Huntsville, TX
Janice McKellar, Southwest Mississippi CC, Summit, MS
Joy Griffin, Colorado Springs School District 11, Colorado Springs, CO
Sandra Wright, CareerSource Palm Beach County, West Palm Beach, FL
Teresa Barnes, Mississippi Community College Board, Jackson, MS
Kathy Funston, Burnsville-Eagan-Savage Public Schools, Burnsville, MN
Maria Ethier, Arizona Dept. of Ed/Adult Ed Services, Phoenix, AZ
Allison Clark, Voorhees College, Denmark, SC
Bonita Steele, Kern Community College District, Bakersfield, CA
Lisa Williams, Florida Department of Education, Tallahassee, FL
Elizabeth Dixon-Coleman, Nevada Department of Corrections, Las Vegas, NV
Ulai Ikesiil, Palau Ministry of Education, Koror, PW
Collaborate with your colleagues from around the country as you expand your professional horizons!

Learn about new best practices and receive targeted training from national level speakers. Thirty-one strands - comprised of more than 370 break out sessions - will be offered, providing valuable, state-of-the-art training that you will be able to bring back to your adult education program! Join more than 2,000 conferees and enjoy numerous networking opportunities with your peers in adult education from around the country!

National Conference Strands Include:

Enjoy café au laits, chicory coffee, and beignets at the world famous Cafe Du Monde!

Visit us on the COABE APP or online at COABE.ORG for complete conference details and updates!
OCTAE Ten Components of a Program of Study

COMPONENT 1) LEGISLATION AND POLICIES: Federal, state, and local legislation or administrative policies promote POS development and implementation.

COMPONENT 2) PARTNERSHIPS: Ongoing relationships among education, business, and other community stakeholders are central to POS design, implementation, and maintenance.

COMPONENT 3) PROFESSIONAL DEVELOPMENT: Sustained, intensive, and focused opportunities for administrators, teachers, and faculty foster POS design, implementation, and maintenance.

COMPONENT 4) ACCOUNTABILITY AND EVALUATION SYSTEMS: Systems and strategies to gather quantitative and qualitative data on both POS components and student outcomes are crucial for ongoing efforts to develop and implement POS.

COMPONENT 5) COLLEGE AND CAREER READINESS STANDARDS: Content standards that define what students are expected to know and be able to do in order to enter and advance in college and/or their careers comprise the foundation of a POS.

COMPONENT 6) COURSE SEQUENCES: Non-duplicative sequences of secondary and postsecondary courses within a POS ensure that students transition to postsecondary education without duplicating classes or requiring remedial coursework.

COMPONENT 7) CREDIT TRANSFER AGREEMENTS: Credit transfer agreements provide opportunities for secondary students to be awarded transcripted postsecondary credit at the time the credit is earned and are supported by formal agreements between secondary and postsecondary education systems.

COMPONENT 8) GUIDANCE COUNSELING AND ACADEMIC ADVISEMENT: Guidance counseling and academic advisement help students to make informed decisions about which POS to pursue.

COMPONENT 9) TEACHING AND LEARNING STRATEGIES: Innovative and creative instructional approaches enable teachers to integrate academic and technical instruction and students to apply academic and technical learning in their POS coursework.

COMPONENT 10) TECHNICAL SKILLS ASSESSMENTS: National, state, and/or local assessments provide ongoing information on the extent to which students are attaining knowledge and skills needed for entry into and advancement in postsecondary education and careers in their chosen POS.

DOLETA Six Key Elements for Success
(https://careerpathways.workforcegps.org/resources/2016/10/20/10/11/Enhanced_Career_Pathways_Toolkit)

ELEMENT 1) BUILD CROSS-AGENCY PARTNERSHIPS AND CLARIFY ROLES: Key cross-agency partners at the local and state levels are engaged, agree to a shared vision, and gain support from political leaders. Roles and responsibilities are clearly defined and formalized.

ELEMENT 2) IDENTIFY SECTOR OR INDUSTRY AND ENGAGE EMPLOYERS: Sectors and industries are selected and employers are engaged in the development of career pathways.

ELEMENT 3) DESIGN EDUCATION AND TRAINING PROGRAMS: Career pathway programs provide a clear sequence of education courses and credentials that meet the skill needs of high-demand industries.

ELEMENT 4) IDENTIFY FUNDING NEEDS AND SOURCES: Necessary resources are raised and/or leveraged to develop and operate the career pathway system, and education and training programs.

ELEMENT 5) ALIGN POLICIES AND PROGRAMS: Pursue state and local policy and administrative reforms in order to promote career pathway system development and to support implementation.

ELEMENT 6) MEASURE SYSTEM CHANGE AND PERFORMANCE: Assess system-wide change and measure performance outcomes to ensure continuous improvement.
Carl D. Perkins Career and Technical Education Act: Strengthening Career and Technical Education for the 21st Century Act
Although not transformative legislation, Perkins V does make significant changes from current law. For the first time, CTE administrators will be required to align all federal funding decisions on the results of a new comprehensive local needs assessment. The legislation re-elevates the federal focus on special populations, as well as programs of study, work based learning, credit transfer agreements, and alignment with the WIOA and ESSA. Changes have been made to the formula for allocating funds to states, and how states use funds for state leadership purposes. Congress imposed limitations on federal rulemaking, which will likely result in challenges for CTE administrators to implement the law. (https://www.careertech.org/perkins)

The Comprehensive Guide to the Federal Role in Career and Technical Education

The Workforce Innovation and Opportunity Act
WIOA is landmark legislation designed to strengthen and improve our nation’s public workforce system and help get Americans, including youth and those with significant barriers to employment, into high-quality jobs and careers and help employers hire and retain skilled workers. (https://www.doleta.gov/wioa/)

DOLETA Career Pathways Toolkit
https://careerpathways.workforcegps.org/resources/2016/10/20/10/11/Enhanced_Career_Pathways_Toolkit

OCTAE 10 Components of a Rigorous Program of Study
https://cte.ed.gov/initiatives/octaes-programs-of-study-design-framework

Career Pathways Resources
• Adult Career Pathways: Providing a Second Chance in Public Education (http://www.cord.org/cord_resources_cp.php)
• National Career Pathways Network (http://ncpn.info/)
• U.S. Department of Health and Human Services Catalog of CP Toolkits, an online directory of free resources available for planning Career Pathways initiatives (https://cptoolkitcatalog.peerta.acf.hhs.gov/)
• WorkforceGPS, sponsored by the U.S. Department of Labor’s Employment and Training Administration (DOLETA), is an online communication and learning technical assistance (TA) platform designed to communicate with and build the capacity of the public workforce investment system to implement 21st-century approaches to workforce and economic development (https://www.workforcegps.org/).
• Perkins Collaborative Resource Network (http://cte.ed.gov/)
• LINCS is a leadership initiative of the U.S. Department of Education, Office of Career, Technical, and Adult Education (OCTAE) designed to expand evidence-based practice in adult education (https://lincs.ed.gov/)
• WIOA Youth Program Resources Page (https://youth.workforcegps.org/resources/2017/03/22/09/55/WIOA-Youth-Program-Resources-Page)
• Stackable Credentials Tool Kit (https://cte.ed.gov/initiatives/credentials)

Apprenticeships
• A Quick-Start Toolkit: Building Registered Apprenticeship Programs (https://www.doleta.gov/oa/employers/apprenticeship_toolkit.pdf)
2018 NCPN Exhibitors

Please visit our 2018 NCPN Exhibitors in the Exhibit Hall. Exhibits are open on Thursday 9:30 A.M.–4:30 P.M. and on Friday 7:30 A.M.–noon.

Booth 1
Amatrol
2400 Centennial Boulevard
Jeffersonville, IN  47130
www.amatrol.com
Amatrol, Inc. designs, develops, and manufactures technical learning systems, eLearning, & hands-on simulators.

Booth 20
ASVAB Career Exploration Program
2834 Green Bay Road
North Chicago, IL  60064
www.asvabprogram.com
What’s your Dream Job? 10-12 grade and postsecondary students can participate in ASVAB Career Exploration. Aptitude results provide a snapshot of skill levels and gain exploration tools via asvabprogram.com.

Booth 38
Aztec Software
51 Commerce Street
Springfield, NJ 07081
www.aztecsoftware.com
Aztec Software provides comprehensive, individualized, targeted, computer-based solutions, assisting adult learners with HSE prep, ABE needs aligned to TABE & pre-HSE, & college prep.

Booth 39
Biotility, University of Florida
13706 Innovation Drive
Alachua, FL 32615
www.biotility.research.ufl.edu
We invite you to learn about the Biotechnician Assistant Credentialing Exam (BACE), which is an industry-recognized exam designed to document mastery of core skills and knowledge sets identified by the bioscience industry as being valuable when considering job candidates for hire.

Booth 14
Center for Work Ethic Development
2907 Huron Street, Suite 200
Denver, CO  80202
www.workethic.org
Through curriculum, certification and consulting, we equip organizations around the world to better prepare their local workforce for employment and lifelong success.

Booth 25
CompTIA
3500 Lacey Road, Suite 100
Downers Grove, IL 60515
www.comptia.org
CompTIA is the voice of the world’s information technology (IT) industry and is dedicated to advancing industry growth through its educational programs, market research, networking events, professional certifications, and public advocacy. CompTIA certifications ensure professionals have the knowledge and skills to perform in IT job roles, including network security.

Booth 13
Conover Company
4 Brookwood Court
Appleton, WI 54914
www.conovercompany.com
Conover Company specializes in career assessments and soft skills. Conover Online tracks, graphs & saves progress automatically to make planning simplified. Come see how it works!

Booth 33
CORD
4901 Bosque Blvd., 2nd Floor
Waco, TX 76710
www.cord.org
The Center for Occupational Research and Development (CORD), a national nonprofit organization, has been leading change in education for 40 years through the design of contextual curriculum, delivery of faculty development, and leadership in Career Pathways. Stop by to learn about our curriculum services for STEM and technical fields, technical assistance for states and communities implementing Career Pathways systems, and faculty support for contextualized instruction.

Booth 32
CORD Communications, Inc.
P.O. Box 21689
Waco, TX 76702-1689
www.cordcommunications.com
Your source for contextual teaching materials for math and science! Teach the way students learn best, in context.

Booth 44
EdITS Publishing LLC
PO Box 7234
San Diego, CA 92167
www.edits.net
EdITS is an industry leader in guidance and instructional materials. Our COPSystem assessments relate interests, abilities, and values to Career Pathways.
Booth 16  
Emsi  
409 S. Jackson Street  
Moscow, ID 83843  
www.economicmodeling.com  
Emsi provides labor market data that helps higher education and workforce development professionals align programs with regional demand, connect students with careers, and demonstrate their regional economic impact. Visit economicmodeling.com

Booth 40  
eScholar  
222 Bloomingdale Road, Suite 107  
White Plains, NY 10605  
www.escholar.com  
eScholar is the nation’s leading innovator in education data solutions to support personalized education. We serve over 40 million learners and set the standard for education data management services.

Booth 11  
Fablicator 3D Printers by K&L Services Group Inc.  
215 N. 8th Street  
Allentown, PA 18102  
www.fablicator.com  
3D Printers designed for education and industry, designed, manufactured and supported by K&L Services Group Inc. Allentown, PA USA.

Booth 21  
FAME - Federation for Advanced Manufacturing Education  
TOYOTA North America  
1001 Cherry Blossom Way Bldg. 603  
Georgetown, KY 40324  
www.fame-usa.com  
The Federation for Advanced Manufacturing (FAME) is a partnership of employers who work together to provide the FAME Career Pathway, of which the hub program is the AMT (Advanced Manufacturing Technician) Program. A grass roots effort designed to produce global-best entry-level technicians, FAME is currently in 10 states and works in 23 local collaboratives of employers, colleges, universities, and workforce/economic development and other supporting groups to achieve its goals.

Booth 18  
Future Plans USA  
10125 Ulmerton Road  
Largo, FL 33771  
www.futureplansusa.com  
Future Plans® is a self-administered Online Career Planning Tool aimed at helping individuals discover their aptitudes, interests, and values so they can choose the best in-demand career pathway that will lead them to their best in-demand career choices.

Booth 37  
Goodheart-Willcox Publisher  
18604 West Creek Drive  
Tinley Park, IL 60477  
www.g-w.com  
Experts in Career and Technical Education, Goodheart-Willcox delivers authoritative content for teaching and learning success. Learn more about new digital learning solutions, textbooks, and instructor resources at our booth or visit www.g-w.com. Together, We Build Careers!

Booth 15  
Mentored Works  
237 South Street  
Waukesha, WI 53186  
www.dynamicinstitute.com  
Mentored Works blends the best of career pathway training with Virtual Success Coaches, to maximize work-based learning and career pathway placement success for people of all ages. Visit our booth to learn more about this revolutionary new approach to job coaching.

Booth 27  
Oxford University Press  
198 Madison Avenue  
New York, NY  
www.elt.oup.com  
Oxford University Press is the world's authority on the English language. As part of the University of Oxford, we are committed to furthering English language learning worldwide.

Booth 30 & 31  
PAIRIN  
2628 Walnut Street  
Denver, CO 80205  
www.pairin.com  
PAIRIN uses friendly science to personalize career exploration, hiring and professional development.
Booth 22 & 23
Presentation Solutions, Inc.
P.O. Box 159
Buckner, KY 40010
www.presentationsolutions.com
Our systems allow you to create your own posters, banners, awards, recognition items and instructional materials—all in house and in minutes! Contact us for FREE, personalized samples!

Booth 24
Realityworks Inc
2709 Mondovi Road
Eau Claire, WI 54701
www.realityworks.com
Realityworks, Inc. creates innovative learning tools for skills training, offering interactive resources for many CTE fields, including FACS, Health Science, Agriculture, Welding and Trade Skills.

Booth 34
Southern Regional Education Board
592 10th Street NW
Atlanta, GA 30318
www.sreb.org
SREB provides schools with technical assistance and curriculum products to develop career pathways that blend secondary, postsecondary and workplace learning to graduate students college and career ready.

Booth 19
STATco
P.O. Box 311
Port O’Connor, TX 77982
www.catema.com
STATco is a web services provider and sole source for the CATEMA® System. The CATEMA System is an online records management and reporting system enabling Career and Technology programs to manage student registration for high school to college course articulated credit. The CATEMA System establishes a common link between secondary and postsecondary education to maintain a “seamless transition” for student information.

Booth 12
Vocational Research Institute
1845 Walnut Street, Suite 660
Philadelphia, PA 19103
www.vri.org
CareerScope® is the valid and reliable interest and aptitude assessment that objectively identifies the most relevant Career Clusters, Pathways, and Specialties for evaluatees. Available Online or on CD.

Booth 26
XPRIZE
800 Corporate Pointe Suite 350
Culver City, CA 90230
www.xprize.org
The $1 million “Adult Literacy XPRIZE Communities Competition” challenges communities and organizations across the country to empower low-literacy adults and use a free, effective mobile learning app.

Kentucky Student Showcase
The NCPN exhibit hall would not be complete without a student showcase from the host state. This year’s student showcase is made up of displays and demonstrations highlighting the accomplishments of high school students. Students will be available to discuss their projects, so be sure to visit them and show your support for what they have accomplished.
Exhibit Hall

Grand Hall in Suite Tower (2nd floor)

ENTER

Escalator to 3rd floor meeting space

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