Strengthening America’s Future Through Career Pathways

October 11–13, 2019
Renaissance Orlando at SeaWorld®

National Career Pathways Network
CONFEREnCE

Program
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!

National Science Foundation

ATE Centers

IMCA

CAT
As director of the National Career Pathways Network, I am delighted to welcome you to Orlando and the 2019 NCPN Conference! Orlando is one of our nation’s great cities, with much to do and see. I hope you can take some time to explore Orlando’s many restaurants, parks, and shopping venues.

This year’s theme—Strengthening America’s Future Through Career Pathways—speaks to our shared commitment to helping students and adults across our country achieve success in careers and life by taking control of their futures. That’s the power of Career Pathways. When students, of all ages, focus on acquiring the skills they will need in the workplace, everyone wins. Our nation’s employers depend on having a pipeline of well-qualified candidates for the many positions they offer. Career Pathways stakeholders like you are providing an invaluable service in keeping that pipeline strong.

At the opening session on Saturday morning we will hear from Scott Stump, Assistant Secretary for Career, Technical and Adult Education, U.S. Department of Education. At Scott’s 10:00 and 12:45 breakout sessions he will share the Department of Education’s vision for Perkins V, which the President signed into law in the summer of 2018. Scott will also discuss current projects and resources that are available to support CTE programs.

We are delighted to have Barrington Irving as a keynote speaker. At the opening session on Saturday morning he will speak of the barriers he overcame in becoming the youngest person and first African American pilot to fly solo around the world. And don’t miss Barrington’s race car, which will be on display in the Exhibit Hall. Powered by a Corvette engine, the car performs at 215 mph and can accelerate from 0 to 60 mph in just 2.7 seconds. Best of all, it was built by students! Barrington will give away signed copies of his book, Touch the Sky: My Solo Flight Around the World, in the back of the Exhibit Hall Saturday 9:30–10:00 and 11:45–12:45. Copies will be limited, so don’t wait.

Congratulations to our Career Pathways Partnership Excellence Award winners. This year, first place went to the Design and Media Arts Pathway at Los Angeles Trade Technical College (LATTC), Los Angeles, California. The second place winner is the Diesel Equipment Technology Program at Copiah-Lincoln Community College in Wesson, Mississippi. Our international winner is the Dominican Republic Business-Technical Education Partnership at the Loyola Polytechnic Institute in San Cristobal, Dominican Republic. Thanks to all involved in the excellent work being done by these exemplary programs. And, of course, many thanks to IMCA, the award sponsor. IMCA has led numerous initiatives aimed at transforming technical education through the development of business-education partnerships.

Our closing session on Sunday will feature a keynote titled Designing Equality in the Classroom by Alexa Frank and Rachael Munkacsi, Senior Consultants, Gender Inclusion, Deloitte Consulting, LLP. Alexa and Rachael will present a design-thinking approach to mitigating gender bias in organizational environments. The session will include time for Q&A.

Last but not least, I want to say thanks to our many fine exhibitors. Be sure to visit them in the Exhibit Hall (Oceans 5–8) to catch up on the latest products and services in CTE. The Exhibit Hall will also include several excellent student projects that you won’t want to miss.

We’re so glad you are here. Enjoy the conference!

Claudia Maness
NCPN Director
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2019 Planning Committee

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NCPN Director

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Executive Director  
Florida Advanced Technological Education Center of Excellence (FLATE), Tampa, FL

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Director, Choice & Career Options  
School District of Palm Beach County

Reecie Stagnolia  
Executive Director, Kentucky Skills U, Education and Workforce Development Cabinet

NCPN Advisory Board
# 2019 Conference Schedule at a Glance

All conference sessions held at the Renaissance Orlando at SeaWorld®.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday, Oct 10</td>
<td>4:00–7:00 P.M.</td>
<td>Registration for Preconference Events</td>
<td>Crystal Registration Desk</td>
</tr>
<tr>
<td>Friday, Oct 11</td>
<td>7:00–10:00 A.M.</td>
<td>Registration for Preconference Events</td>
<td>Crystal Registration Desk</td>
</tr>
</tbody>
</table>

You must register and pay an additional fee to attend preconference events. *Lunch is provided for all preconference attendees.*

<table>
<thead>
<tr>
<th>Event</th>
<th>Description</th>
<th>Location</th>
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</thead>
</table>
| Half-day Events         | • Strengthening Career Pathways by Building Leadership Capacity  
                         | • Is the FAME Career Pathway Right for You?                               | Oceans 2                                |
|                        | • TOUR: Regal Manufacturing                                                 | Nomeus (2nd floor)                      |
|                        | (includes continental breakfast)                                            | Board by Oceans Ballroom                |
| Full-day Workshop       | Advancing Credentials through Career Pathways Institute                     | Oceans 4                                |
|                        | 8:00 A.M.–4:30 P.M. (includes continental breakfast)                        |                                        |
| Full-day Workshops      | • Career Paths Leadership (CPL) Certification                               | Oceans 12                               |
|                        | • Career Paths Leadership II: How to Improve Existing Career Pathways        | Tarpon (2nd floor)                      |
|                        | 9:00 A.M.–4:30 P.M. (includes continental breakfast)                        |                                        |
|                        | 10:00 A.M.–6:00 P.M. Registration for Main Conference                       | Crystal Registration Desk              |
|                        | Noon–1:00 P.M. Preconference Luncheon (all preconference attendees)        | Crystal ABC                             |
| Half-day Events         | • Apprenticeships and Pre-apprenticeships in Career Pathways                | Palani (2nd floor)                      |
|                        | • Less Talk, More Walk: Creating a Culture of Trust and Accountability      | Oceans 10                               |
|                        | • TOUR: Hospitality Industry                                                 | Board by Oceans Ballroom                |
|                        | 1:30–4:30 P.M.                                                             |                                        |
|                        | 1:00–4:30 P.M.                                                             |                                        |
|                        | 4:30–6:00 P.M. All-Attendee Networking Reception                            | Exhibit Hall (Oceans 5–8)              |
| Saturday, Oct 12       | 7:00 A.M.–5:00 P.M. Conference Registration                                | Crystal Registration Desk              |
|                        | 7:45 A.M.–3:45 P.M. Exhibits Open                                           | Exhibit Hall (Oceans 5–8)              |
|                        | 7:45–8:30 A.M. Continental Breakfast                                        | Exhibit Hall (Oceans 5–8)              |
|                        | 8:30–9:30 A.M. Opening Session                                              | Crystal Ballroom                        |
|                        | 9:30–10:00 A.M. Snack Break / Book Signing                                 | Exhibit Hall (Oceans 5–8)              |
|                        | 10:00–10:45 A.M. Concurrent Sessions                                        | See page 18.                           |
|                        | 11:00–11:45 A.M. Concurrent Sessions                                        | See page 20.                           |
|                        | 11:45 A.M.–12:45 P.M. Box Lunch / Florida Student Showcase / Race Car / Book Signing | Exhibit Hall (Oceans 5–8)              |
|                        | *(Box lunches in Exhibit Hall. Seating in Atrium.)*                        |                                        |
|                        | 12:45–1:30 P.M. Concurrent Sessions                                        | See page 22.                           |
|                        | 1:45–2:30 P.M. Concurrent Sessions                                         | See page 24.                           |
|                        | 2:30–3:00 P.M. Snack Break                                                 | Exhibit Hall (Oceans 5–8)              |
|                        | 3:00–3:45 P.M. Concurrent Sessions                                         | See page 26.                           |
| Sunday, Oct 13         | 7:30 A.M.–Noon Conference Registration                                      | Crystal Registration Desk              |
|                        | 8:00–8:30 A.M. Continental Breakfast                                        | Oceans 6/8                              |
|                        | 10:15–10:45 A.M. Beverage Break                                             | Oceans 6/8                              |
|                        | 10:45–11:30 A.M. Concurrent Sessions                                        | See page 32.                           |
|                        | 11:45 A.M.–1:00 P.M. Closing Session                                        | Crystal ABC                             |
# Personal Schedule

All conference sessions held in the Renaissance Orlando at SeaWorld®.

<table>
<thead>
<tr>
<th>Friday, Oct 11</th>
<th>Selection</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 A.M.–Noon</td>
<td>Half-day Workshop/Tour <em>(if applicable)</em></td>
<td></td>
</tr>
<tr>
<td>8:00 A.M.–4:30 P.M.</td>
<td>Advancing Credentials through Career Pathways Institute</td>
<td>Oceans 4</td>
</tr>
<tr>
<td>9:00 A.M.–4:30 P.M.</td>
<td>Full-day Workshop <em>(if applicable)</em></td>
<td></td>
</tr>
<tr>
<td>Noon–1:00 P.M.</td>
<td>Preconference Lunch <em>(Lunch is provided for all preconference attendees.)</em></td>
<td>Crystal ABC</td>
</tr>
<tr>
<td>1:30–4:30 P.M.</td>
<td>Half-day Workshop/Tour <em>(if applicable)</em></td>
<td></td>
</tr>
<tr>
<td>4:30–6:00 P.M.</td>
<td>All-Attendee Networking Reception</td>
<td>Exhibit Hall</td>
</tr>
</tbody>
</table>

### Saturday, Oct 12

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:45 A.M.–3:45 P.M.</td>
<td>Exhibits Open</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>7:45–8:30 A.M.</td>
<td>Continental Breakfast</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>8:30–9:30 A.M.</td>
<td>Opening Session</td>
<td>Crystal Ballroom</td>
</tr>
<tr>
<td>9:30–10:00 A.M.</td>
<td>Snack Break / Book Signing</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>10:00–10:45 A.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>11:00 A.M.–11:45 P.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>11:45 A.M.–12:45 P.M.</td>
<td>Box Lunch / Florida Student Showcase / Race Car / Book Signing <em>(Box lunches in Exhibit Hall. Seating in Atrium.)</em></td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>12:45–1:30 P.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>1:45–2:30 P.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>2:30–3:00 P.M.</td>
<td>Snack Break</td>
<td>Exhibit Hall</td>
</tr>
<tr>
<td>3:00–3:45 P.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Sunday, Oct 13

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00–8:30 A.M.</td>
<td>Continental Breakfast</td>
<td>Oceans 6/8</td>
</tr>
<tr>
<td>8:30–9:15 A.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>9:30–10:15 A.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>10:15–10:45 A.M.</td>
<td>Snack Break</td>
<td>Oceans 6/8</td>
</tr>
<tr>
<td>10:45–11:30 A.M.</td>
<td><strong>Concurrent Sessions</strong></td>
<td></td>
</tr>
<tr>
<td>11:45 A.M.–1:00 P.M.</td>
<td>Closing Session</td>
<td>Crystal ABC</td>
</tr>
</tbody>
</table>
Business Center
The Business Center is located on the Lobby Level next to the Crystal registration desk where NCPN registration will be held.

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 for their attendance during the conference. If you attend a session in each of the eight blocks of concurrent sessions as well as the Opening Session and Closing Session Luncheon, you will take part in 8 hours of strong programming. The half-day and full-day preconference events on Friday provide 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 Sunday).

A link to the online conference evaluation form will be emailed to you after the conference.

Food
NCPN will provide the following:

Preconference Lunch (Crystal ABC)
   FRI  Noon–1:00 P.M. (for all preconference attendees)

Reception (Exhibit Hall, Oceans 5–8)
   FRI  4:30–6:00 P.M. (for all attendees)

Continental Breakfast
   SAT  7:45–8:30 (Exhibit Hall)
   SUN  8:00–8:30 (Oceans 6/8)

Snack Breaks (Exhibit Hall, Oceans 5–8)
   SAT  9:30–10:00 A.M. (book signing by Barrington Irving)
   2:30–3:00 P.M.
   SUN  10:15–10:45 A.M. (Oceans 6/8)

Box Lunches/Book Signing (Back of Exhibit Hall)
   SAT  11:45 A.M.–12:45 P.M.
   Standing tables are provided inside the Exhibit Hall.
   Seating is available in the Atrium.

NCPN Closing Session Luncheon (Crystal Ballroom ABC)
   FRI  11:45 A.M.–1:00 P.M. For those who signed up on their NCPN registration form. If you did not sign up and would like to attend, please let the registration staff know.

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

Hotel
Renaissance Orlando at SeaWorld®
6677 Sea Harbor Drive
Orlando, FL 32821
407-351-5555

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

Lost and Found
Found items will be held at the NCPN registration counter by the Crystal Ballroom, Lobby Level.

NCPN Office
The NCPN office is in Oceans Office 1 by the Oceans Ballroom.

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.
General Information

Registration Hours
NCPN conference registration, located at the Crystal Registration Desk on the Lobby Level, will be open the following hours:

Preconference Registration
THUR 4:00–7:00 P.M.
FRI 7:00–10:00 A.M.

Main Conference Registration
FRI 10:00 A.M.–6:00 P.M.
SAT 7:00 A.M.–5:00 P.M.
SUN 7:30 A.M.–Noon

Exhibit Hall Hours / Events
Exhibit Hall (Oceans 5–8, Lobby Level)

FRIDAY
Networking Reception, 4:30–6:00 P.M. (all attendees)

SATURDAY
Exhibits Open, 7:45 A.M.–3:45 P.M.
Continental Breakfast, 7:45–8:30 A.M.
Snack Break/Book Signing, 9:30–10:00 A.M.
Box Lunch/Exhibits/Florida Student Showcase
11:45 A.M.–12:45 P.M.
Box lunches are located in the back of the Exhibit Hall. Seating is available in the hotel Atrium and in the Crystal Ballroom.
Snack Break, 2:30–3:00 P.M.

Conference Participation

Color Guard
During the Opening Session on Saturday morning, we will have a color guard display the colors during the National Anthem. This year’s color guard is provided by Jones High School AJROTC under the direction of LTC (Ret) Jonathan E. Watson.

Singing of National Anthem
The National Anthem will be sung by a choral group from Jones High School under the direction of Andrea Green.

Florida 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 middle and 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.

Build and Soar, Miami, Florida
Don’t miss the race car built by students of our Opening Session keynote, Barrington Irving. In 2012, the Experience Aviation team decided to take the Build a Plane concept and convert it into a Build a Car concept. Captain Irving and the Experience Aviation team then challenged 40 students from South Florida to construct a Factory Five GTM Supercar that performs at 215 mph using a Corvette engine and a Porsche transaxle. A kit car that was delivered in boxes of nuts, bolts, sheet metal, and a fiber glass frame was then built by students to completion utilizing STEM (science, technology, engineering, and math) skills. The result is a car that accelerates from 0 to 60 mph in just 2.7 seconds.

Book Signing
Opening Session keynote Barrington Irving will give away signed copies of his autobiography, Touch the Sky: My Solo Flight Around the World, in the Exhibit Hall. Barrington was the youngest person and the first African American pilot to fly solo around the world. His bold achievements speak to everyone with a dream. Copies are limited.

Book signing hours:
SAT 9:30–10:00
SAT 11:45–12:45
Special Events

OPENING SESSION • Saturday, 8:30–9:30, Crystal Ballroom


KEYNOTE

Barrington Irving, Founder and CEO of Experience Aviation

Barrington Irving was raised in Miami’s inner city, surrounded by crime, poverty, and failing schools. He will share his amazing story about overcoming the obstacles. Barrington will also share recent experiences of an expedition to Cuba with school leaders as part of their professional learning. He has now completed 47 expeditions and has expanded support to schools around Career Pathways and academies. You don’t want to miss this inspiring keynote!

This session will be immediately followed by a book signing in the Exhibit Hall. Copies are limited.

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-winner programs will be recognized.

1st Place: Design and Media Arts Pathway, Los Angeles Trade Technical College (LATTC), Los Angeles, CA
Recipient: Armine Javadyan

2nd Place: Diesel Equipment Technology Program, Copiah-Lincoln Community College, Wesson, MS
Recipients: Steven Esch, Brent Duguid


CLOSING SESSION LUNCHEON • Sunday, 11:45–1:00, Crystal Ballroom ABC

KEYNOTE

Alexa Frank and Rachael Munkaci, Senior Consultants, Gender Inclusion, Deloitte Consulting

Alexa and Rachael will present a design-thinking approach to mitigating gender bias in organizational environments. With a special focus on the technical classroom setting, they will discuss the value of using design thinking to create more gender-inclusive environments—customizable to the organization, its people, its resources, and its needs—and highlight simple, actionable ways anyone can harness the power of design thinking in the technical education space to promote gender equity. This session will also include a moderator panel with time for Q&A.

Leadership Development Academy Graduates Recognition

2018–2019 LDA graduates will be recognized during this session.

Prize Drawing

Immediately following the Closing Session, two free registrations to 2020 NCPN and a free trip to the Atlanta Marriott Marquis—site of 2020 NCPN—will be given.
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.

Saturday 10:00–10:45 Oceans 4

SPW • FCE

Emerging Pathways: Multi-Track Hybrid Curriculum for Robotics in Advanced Manufacturing

CUCWD is leading the collaborative development of an industry-aligned four-track curriculum designed to enable educational pathways from high school to master’s degrees with concentrations in robotics and advanced manufacturing. This session will discuss project details on partnerships and curriculum and how participants can “pilot” the courseware prior to launch in 2020. John Williams, Rachel Turner, Clemson University Center for Workforce Development (CUCWD), Clemson, SC

Saturday 11:00–11:45 Oceans 12

SPAW • FAS

Florida’s Manufacturing Ecosystem Expands to Include Manufacturing Education

This presentation will share the strategies and impacts of a growing number of partnership projects and activities involving FLATE (Florida Advanced Technological Education Center of Excellence, an NSF ATE funded center) and FloridaMakes, a NIST MEP (Manufacturing Extension Partnership). Marilyn Barger, FLATE, Tampa, FL

Saturday 11:00–11:45 Coral B

SPAW • FCAS

DACUM 2.0: Using Compression Planning for Industry-Aligned Curriculum

Educators and employers know the importance of aligning curriculum to workforce needs. However, few have the requisite two days for a DACUM. Columbus State helps solve this issue by pairing key strategies from the DACUM process with compression planning to conduct a jobs skills analysis in 75 percent less time. Tara Sheffer, Shane Kirby, Columbus State Community College, Columbus, OH

Saturday 12:45–1:30 Coral A

PW • FAS

Addressing the Need for Manufacturing Technology Instructors

To address the growing need for instructors in advanced manufacturing, educators, employers, and industry associations came together to develop a recruitment campaign. An initial survey administered to retired manufacturing employees resulted in recommendations that will be shared during this session, along with the results of instructor recruitment initiatives that have been implemented. Karen Wosczyna-Birch, Wendy Robicheau, College of Technology/Regional Center for Next Generation Manufacturing (RCNGM), Farmington, CT

Saturday 1:45–2:30 Coral B

SW • FCAE

Development of the Cybersecurity Workforce: The Palo Alto Networks Cybersecurity Academy

To help meet the unprecedented demand for cybersecurity trained and certified individuals, this session will provide attendees with information on the benefits of becoming a Palo Alto Networks Cybersecurity Academy. JB Groves III, Wharton County Junior College, Richmond, TX

Saturday 3:00–3:45 Oceans 3

SP • FCAS

Helping Today’s Students Find Their Place

What does a person in a technology/engineering job actually do? Until students are able to answer that question, they are not well equipped to choose careers. This session will share strategies for helping students learn about careers they have never even considered, along with strategies for engaging ALL students. Attendees will also gain ideas and materials for increasing female enrollment in technical programs. Pamela Silvers, Asheville-Buncombe Technical Community College (A-B Tech), Asheville, NC
Saturday 3:00–3:45  Oceans 12  SPAWB • FAE

Preparing Technicians for the Future of Work

Advances in technology are changing industries at an unprecedented pace, transforming not only tasks and occupations but entire fields. Demand for positions involving tasks that can be automated will decline and, in some cases, disappear, while entirely new occupations will emerge. What implications will these changes have for technician education? In this session, attendees will engage in a dialogue about how the NSF ATE community can prepare technicians for the evolving realities of the future of work. Marilyn Barger, Florida Advanced Technological Education Center of Excellence (FLATE), Tampa, FL; Richard Gilbert, University of South Florida, Tampa, FL; Mike Lesiecki, CORD, Phoenix, AZ; Ann Claire Anderson, CORD, Waco, TX

Sunday 8:30–9:15  Coral C  PWB • FCAE

Engaging with Employers and Getting Students Workforce Ready

The National Convergence Technology Center’s “BILT model” energizes business relationships to get the support programs need and align curriculum with workforce needs. Learn key strategies, hear how other schools adapted and adopted this approach, and receive free tools so your graduates have the skills they need to get hired. Mark Dempsey, National Convergence Technology Center (CTC), Frisco, TX

Sunday 8:30–9:15  Nomeus (2nd floor)  S • FCS

Generating Interest in Emerging Career Fields

Attendees will gain ideas for encouraging K-12 educators to expose students to career fields they may not have previously considered. These activities can be modified to develop a pipeline that applies to any career field. Mary Ann Nickloy, Kelly Fahrenkopf, Northeast Advanced Technological Education Center (NEATEC), Albany, NY

Sunday 9:30–10:15  Coral C  SPAWB • FCAES

Better the Planet Through Building Energy Efficiency

Learn about Florida’s first Energy Management and Controls Technology AS degree. Developed by Valencia College, the program prepares students to become highly trained technicians operating and maintaining technologically complex, “high performance” buildings. Topics will include industry partner development; K-12, female, and veteran student outreach; and student experiences both in the lab and in industry. Deb Hall, Arin Partington, Valencia College, Orlando, FL

Sunday 9:30–10:15  Oceans 3  SPAWB • FAE

Necessary Skills Now

Attendees will engage in a dialogue about how the Necessary Skills Now (NSN) Coordination Network (an NSF ATE project) can grow its emerging community of practice around employability skills for technicians. Packed with expertise, experience, and enthusiasm, the NSN-Network is a one-stop shop that gives educators and employers access to resources and tools for the classroom. Funded by NSF ATE, the NSN-Network is dedicated to ensuring that the rising STEM technician workforce is truly “ready for work” in the 21st century. Marilyn Barger, Florida Advanced Technological Education Center of Excellence (FLATE), Tampa, FL; Hope Cotner, John Chamberlain, CORD, Waco, TX
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.

The Hispanic-Serving Institutions (HSI) program seeks to enhance the quality of undergraduate STEM education and to increase retention and graduation rates of undergraduate students pursuing degrees in STEM at HSIs.

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

Louis Stokes Alliances for Minority Participation (LSAMP) The LSAMP program places particular emphasis on transforming undergraduate STEM education through innovative, evidence-based recruitment and retention strategies, and relevant educational experiences in support of racial and ethnic groups historically underrepresented in STEM disciplines.

Robert Noyce Teacher Scholarship Program (Noyce) provides funds to postsecondary institutions to support scholarships, stipends, and academic programs for STEM majors and professionals to become K–12 teachers.

Not a complete list. Please check the NSF website for additional programs.
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.

Leadership development is essential in 21st-century education. In today’s complex, competitive, technology-driven educational environments, it is imperative as never before that leaders be able to move their institutions in directions that produce the best outcomes. Career Pathways leaders in particular need keen decision-making and organizational skills that enable them to bring together the many stakeholder groups involved in Career Pathways systems. This session will focus on innovative strategies for building personal and professional leadership skills among Career Pathways practitioners. Attendees will leave with renewed energy, effective practices for learning and improving leadership skills, and new approaches they can apply in their own communities. Facilitator: Jeraline Johnson, School District of Palm Beach County. Presenter: Nick Brown, Indian River State College. Dr. Nicholas Brown comes from a family of educators. In 2003 he earned a BS in business administration from Florida Agricultural and Mechanical University (FAMU). In 2005 he graduated with honors from Nova Southeastern University with a master’s degree in business administration and, in July 2016, completed a doctorate in business administration with a concentration in marketing. Dr. Brown has served IRSC as Director of Articulation and Partnerships, leading the effort to make education more affordable through articulation. As chair of the Research Coast Career Pathways Consortium (RCCPC), he focused on making education more accessible and seamless. Today he is a faculty member at the IRSC School of Business.

The FAME Career Pathway is a multiple-award-winning program that serves four customer groups (education, students, employers, workforce/economic development), offers four career pathways and a PK-to-master’s pathway, and provides benefits to students such as debt-free college degrees, comprehensive and paid work experiences, an 80 percent graduation rate (college), and an 85 percent immediate hire rate into full-time jobs at high pay. No special programs are required for entry, so application is open to all students. There is no cost to participating PK-12 schools. The program’s employer partnership component will strengthen participating colleges’ grant requests. Participating employers gain what many consider to be the global-best entry-level technicians. It’s endorsed by the White House and by the largest trade group in the U.S., the National Association of Manufacturers. Are you interested in bringing this program to your area? This workshop will show you how. Dennis Dio Parker, Toyota North American Production Support Center; Gardner Carrick, The Manufacturing Institute

The Regal Tour will provide an in-depth look into how Regal boats are made. Attendees will observe the lamination, upholstery, infusion, and final assembly processes and will visit the cabinet shop and one-mile long test track. The journey will take attendees from “concept to reality.” Following the tour, attendees will experience Regal’s showroom and climb aboard some of Regal’s newest models. (The tour will take place in a large manufacturing environment. Attendees should wear closed-toe shoes.)

Preconference Luncheon • Noon–1:00, Crystal ABC

For all preconference attendees

Employer Panel Next Generation Workforce: Challenges and Opportunities

The Future of Work is ushering in rapid changes that will directly affect the next generation workforce, posing both challenges and opportunities for Career Pathways programs. Hear from industry about the technology transformation and workplace shifts that are already underway.
You must register and pay an additional fee to attend preconference events.

**Full-Day Preconference Workshops • 8:00–4:30**

**Oceans 4**
**Advancing Credentials through Career Pathways Institute**

This day-long event is hosted by the Advancing Credentials through Career Pathways initiative. The Institute will immerse community college professionals in best practices and robust discussions centered around the initiative’s three focus areas: Employer Engagement, Career Pathways Embedded with Stackable Credentials, and Non-credit to Credit Integration. The Institute will feature plenary and small-group sessions as well as networking activities. Participants will receive a range of tools and resources they can deploy immediately at their college and with local employer partners.

**Full-Day Preconference Workshops • 9:00–4:30**

**Oceans 12**
**Career Pathways Leadership (CPL) Certification**

Certification requires attending this workshop and the NCPN conference on Saturday and Sunday. If you are involved in CTE, adult education, 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 will include: the need for Career Pathways partnerships, sector identification and employer engagement, program design and delivery, funding, academic achievement, career planning, professional development, and beginning with the end in mind.

**Tarpon (2nd floor)**
**Career Pathways Leadership II: How to Improve Existing Career Pathways**

Workshop participants will review the DOL Six Elements of Career Pathways and learn how to align their existing pathways to specific secondary and postsecondary programs, connect them to dual enrollment, and determine entry and exit points. A Career Pathway assessment tool and best practices will be shared, and work time will be provided. Participants are encouraged to attend in teams. **Ann Westrich**, Wisconsin Technical College System Office; **Claudia Maness**, CORD. **Panelists**: **Kaye Sharbino**, Past President, COABE, Delhi, LA; **Rebecca Bettencourt**, E. & J. Gallo Winery, Modesto, CA; **Jennifer Wagner**, Dan Miller, Pathways Wisconsin | Wisconsin Department of Public Instruction, Madison, WI

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

**Oceans 10**
**Less Talk, More Walk: Creating a Culture of Trust and Accountability**

This session will address ethics and accountability through a proven methodology that will enable participants to build accountability throughout their organizations. Using a collaborative approach, participants will go through an experiential assessment and use the results to focus on how to get themselves, their teams, and their organizations not just talking but walking ethics and accountability. The workshop’s content is driven by best practices, cutting-edge literature, and real-world experiences of leaders across the country. Don’t miss this opportunity to transform yourself and your team from talkers to walkers. Attendees will learn to understand the business impacts of ethics and accountability, recognize the factors that cause gaps in integrity, and apply at least three tactics to improve their personal and organizational integrity and accountability. **Josh Davies**, CEO, The Center for Work Ethic

**Palani (2nd floor)**
**Apprenticeships and Pre-apprenticeships in Career Pathways**

The presenter will cover topics such as strategies for business engagement, partnership building, braided funding, intermediaries, and the roles of partners. Special focus will be given to nontraditional industries and underrepresented populations. Attendees will hear about best practices and lessons learned from states that are making progress in this area. Attendees will be given an opportunity to develop action steps for integrating these practices into their own state and local plans. **Jennifer Jirous-Rapp**, Maher and Maher, Inc.

**TOUR: Hospitality Industry Tour**

Attendees will tour a hospitality venue and Universal Orlando CityWalk, where they will learn first-hand from industry professionals what careers are available and what job skills are most needed in today’s hospitality and tourism industry. This interesting and informative tour will help attendees guide students on their pathways to an array of career opportunities in this exciting field.

Includes continental breakfast and lunch

**Includes continental breakfast and lunch**

Includes continental breakfast and lunch

Includes continental breakfast and lunch
The National Anthem will be sung by a choral group from Jones High School under the direction of Andrea Green. This year’s color guard is provided by Jones High School AJROTC under the direction of LTC (Ret) Jonathan E. Watson.

**Opening Session/Awards**

**Saturday 8:30–9:30**

Crystal Ballroom

The National Anthem will be sung by a choral group from Jones High School under the direction of Andrea Green. This year’s color guard is provided by Jones High School AJROTC under the direction of LTC (Ret) Jonathan E. Watson.

**Welcome**

Claudia Maness
NCPN Director

**Opening Remarks**

Scott Stump
Assistant Secretary for Career, Technical and Adult Education, U.S. Department of Education

**KEYNOTE**

Barrington Irving

Founder and CEO, Experience Aviation

Barrington Irving was raised in Miami’s inner city, surrounded by crime, poverty, and failing schools. He will share his amazing story about overcoming the obstacles. Barrington will also share recent experiences of an expedition to Cuba with school leaders as part of their professional learning. He has now completed 47 expeditions and has expanded support to schools around Career Pathways and academies. You don’t want to miss this inspiring keynote!

**Snack Break and Book Signing • 9:30–10:00 in Exhibit Hall**

Opening Session keynote Barrington Irving will give away signed copies of his autobiography, *Touch the Sky: My Solo Flight Around the World*, in the Exhibit Hall. **Copies are limited.**

Visit the exhibits, the Florida Student Showcase, and the race car built by Barrington Irving’s students.
NCPP’s 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. The award is sponsored by IMCA, an international company with a reputation for innovative social investments in technical education. IMCA has led numerous initiatives over the past decade, all aimed at transforming technical education through the development of strategic business-education partnerships.

**FIRST PLACE**
**Design and Media Arts Pathway, Los Angeles Trade Technical College (LATTC)**

The Design and Media Arts Pathway at LATTC prepares students for creative careers in fashion design, fashion merchandising, tailoring, visual communications, sign graphics, and digital media. Our programs of study balance creative and practical skills while providing rigorous, comprehensive training through the use of manual and technological tools. Upon entering the pathway, students in design and media arts are guided to a program of study within the pathway that best meets their interests and strengths. Throughout the program, students are provided with embedded counseling, student services, and contextualized general education courses to ensure they stay on the path to achieving their career and academic goals. As students complete their program of study, the Design and Media Arts Pathway readies them for entry into the workforce through industry partnerships that lead to internships and employment.
SECOND PLACE

Diesel Equipment Technology Program
Copiah-Lincoln Community College

Copiah-Lincoln Community College’s Diesel Equipment Technology Program is a two-year instructional program that provides students with competencies required to maintain and repair a variety of industrial diesel equipment, including agricultural tractors, commercial trucks, and construction equipment. The program includes instruction in inspection, repair, and maintenance of engines, power trains, hydraulic systems, and other components through hands-on experience, cooperative and work-based learning, and laboratory training. Graduates can earn a technical certificate or an associate of applied science degree. Co-Lin offers the program on both the Wesson and Natchez campuses. The program boasts a 100 percent student completion rate and 98 percent job placement rate.

Over the last 50 years, Co-Lin’s Diesel Equipment Technology Program has cultivated valuable relationships with business and industry leaders in Southwest Mississippi to ensure students are well prepared to enter the workforce as skilled employees. Partnerships with companies like Empire Trucking, Puckett Machinery, Waters International Trucks Inc., and Wal-Mart Trucking have not only provided internship and employment opportunities, but also student scholarships.

INTERNATIONAL WINNER

Dominican Republic Business-Technical Education Partnership

In 2018 NCPN launched an international track designed to recognize programs that share the philosophy of contextual teaching and learning and the need for public-private partnerships to create “shared value” in education.

NCPN is pleased to announce that the winner of the first international award is the Dominican Republic Business-Technical Education Partnership (DRBTEP). DRBTEP was designed in 2007 to create a pipeline of world-class technicians to boost the DR’s international competitiveness. The program is headquartered at the Loyola Polytechnic Institute (LPI), one of the best education institutions in the country. (In Spanish the acronym is IPL, for Instituto Politécnico Loyola.)

To date, more than 1500 students have graduated from the program, and around 100 LPI teachers have received over 15,000 person-hours of professional development.

NCPN Career Pathways Partnership Excellence Award Judges
Debbie Davidson, CORD, Kenosha, WI • Ann Westrich, Wisconsin Technical College System
Rebecca Bettencourt, E. & J. Gallo Winery • Sandra Harwell, CORD, Lakeland, FL
Oceans 2

SPAW • FCAES
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). An opportunity for state and local practitioners to ask questions about any aspect of their CTE programs will also be provided. Scott Stump, Assistant Secretary for Career, Technical and Adult Education, U.S. Department of Education, Office of Career, Technical and Adult Education (OCTAE)

Coral C

SPAWB • CAES
FEATURED

Building Successful Industry Partnerships

Partnerships between education and industry are critical for the success of today’s economy. They can support issues companies are currently facing and can better prepare students and faculty to tackle real-world challenges. For schools, partnerships with industry can provide a wide range of unique opportunities beyond just recruiting and raising funds. For industry, partnering with education can provide the opportunity to raise awareness about their brands, recruit the best minds, and offer opportunities to engage their employees and stakeholders. This session will discuss key steps to developing stronger, mutually beneficial partnerships and share success stories. Roger Tadajewski, National Coalition of Certification Centers, Pleasant Prairie, WI

Oceans 3

SPAWB • CAE

Development of a State-Endorsed Regional Career Pathway in Health

Looking to build a health pathway that can easily be replicated in other clusters? Then this session is for you! Under a national J.P. Morgan Chase New Skills for Youth grant, Wisconsin has piloted building collaborative regional career pathways with a focus on high-skill, high-demand occupational areas. Join Wisconsin’s regional career pathway directors as they share the state-endorsed regional career pathway in health. This session will provide an in-depth overview of the process and tools for replication. This approach is regional but can also be implemented locally. Jennifer Wagner, Dan Miller, Pathways Wisconsin | Wisconsin Department of Public Instruction, Madison, WI

Oceans 1

SPAW • FCAS
FEATURED

1st Place Winner: LATTC Design and Media Arts Pathway: An Innovative Approach to Guided Pathways to Success

This presentation will focus on how the Design and Media Arts Pathway has implemented Los Angeles Trade-Technical College’s Pathways to Academic, Career and Transfer Success (PACTS). The college launched this transformative initiative in 2012. As components of one of the flagship pathways, innovative curricular and student services approaches were developed, piloted, and institutionalized to ensure students achieved foundational, readiness, certificate, degree and transfer competencies that prepare them for careers in the related design occupations. The presentation will describe how the program embedded student services within the pathway, developed guided choices, and integrated shared thematic content each semester, working closely with general education and DMA faculty. The presenter will also describe how industry was intricately involved in the development of the curriculum and provided work-based learning and internship opportunities for students. Armine Javadyan, Los Angeles Trade-Technical College (LATTC), Los Angeles, CA

Oceans 11

SPPB • FCAES

Strengthening America’s Future Through Curriculum Design

This transformational session will address Tyler’s model of curriculum design—a proven model for best practice in career technical education. The presentation’s content is driven by best practices and real-world experiences that support industry-driven curriculum. LaToya Rembert-Sterling, Valeria Williams, Mississippi Community College Board, Jackson, MS
Emerging Pathways: Multi-Track Hybrid Curriculum for Robotics in Advanced Manufacturing

CUCWD is leading the collaborative development of an industry-aligned four-track curriculum designed to enable educational pathways from high school to master’s degrees with concentrations in robotics and advanced manufacturing. This session will discuss project details on partnerships and curriculum and how participants can “pilot” the courseware prior to launch in 2020. John Williams, Rachel Turner, Clemson University Center for Workforce Development (CUCWD), Clemson, SC

Lessons Learned: How Breaking Down Silos Has Led to Innovative Programming

This session will focus on one mid-sized community college’s journey to significant changes in the way students are prepared to enter the workforce in high-demand careers. Topics will include program planning, articulated credit, and the value of stackable credentials. Camille Reese, Amanda Rhea, Carol Johnson, Mitchell Community College, Statesville, NC

Achievement in Career Engagement is an Online Student Engagement Platform

Achievement in Career Engagement (ACE) is a process for developing work-based learning skills through an endorsement program, based on levels of accomplishment, personalized by students, and confirmed through KEDC. Students in high school are confirmed Transition Ready in Careers and Academics. The ACE process includes a career counselor info-guide designed to engage attendees in career awareness, exploration, and development. Attendees will benefit by taking home career road maps for advising students. Carla Kersey, Clabe Slone, Jennie Sloan, Kentucky Educational Development Corporation (KEDC), Lexington, KY

The Convergence of Career and Guided Pathways: How to Implement Both

Learn how one technical college leveraged its existing Career Pathways work to integrate career and guided pathways and helped college stakeholders understand the similarities and differences between the two. Attendees will take away advice on how to structure conversations, processes, and work teams to strategically align both initiatives. Jaime Spaciel, Gateway Technical College, Kenosha, WI

Career Pathways in Reverse: Do You Know the Alternative Routes?

Join members of the Workforce Board Lehigh Valley team as they showcase evidence-based career pathways leading to real-time college and career readiness. The presenters are eager to share their partnership and alignment models with attendees from business and industry, economic development, and education. This will be a fast-paced and interactive session. Nancy Dischinat, Cindy Evans, Workforce Board Lehigh Valley, Allentown, PA

Connecting Classrooms to Careers (of the Future)

This session will explore national and local labor market data and projections about the skills needed for “the future of work.” Participating classroom teachers, administrators, and counselors will learn how to connect their classrooms to students’ future careers, and will walk away with an implementation roadmap for “remixing” the student experience in the age of automation. Lindsey Dixon, Urban Assembly, New York, NY

Creating Trade Skills Exploration Opportunities Through a High-Engagement Pre-Apprenticeship Program

During this session, attendees will learn about the partnerships, programming, coursework, and activities Brevard Adult Education employed to create a pre-apprenticeship program approved by the state of Florida to address the shortage of skilled trade workers. Attendees will learn about AVID for Higher Education’s strategic instructional practices. Tonya Holder, Jeffery Arnott, Brevard Adult Education, Cocoa, FL; Betty Krohn, AVID for Higher Education, Dallas, TX
Creating Shared Value: It’s About Business

In this facilitated conversation, corporate leaders from Siemens and Caterpillar will share their perspectives on leveraging the business concept of shared value to have a new conversation with potential industry partners in your community. Hear about their success in collaborating with schools on program design from the ground up. Learn how you can reframe the business-education partnership value proposition to demonstrate to local employers your shared mutual interest—the success of their business!

Pedro Esteva, IMCA-CAT, Dominican Republic; Art Cantin, Siemens, Winston-Salem, NC; Roger Tadajewski, NC3, Pleasant Prairie, WI

Perkins V: Moving from One-Year Transition to Four-Year Plans

States are in the process of developing their four-year plans under Perkins V. This presentation will provide an overview of how states can move from their one-year transition plans to their full four-year plans, including how the four-year plans are different from the transition plans and how states are addressing new elements in Perkins V.

Meghan Wills, Advance CTE, Silver Spring, MD

Seven Secrets to Becoming the Leader You Never Thought You Could Be

With constant change increasing the pressure placed on all of us, how can you adapt to meet the needs of your customers and yourself? How do you deal with the difficulty of doing more with fewer resources? How do you stop spending your days putting out fires? Simple: Stop letting your title or organizational structure keep you from being a leader. In this spirited and interactive session, you will learn seven secrets that empower great leaders to make things happen. Find out how you can apply these same secrets to your job—no matter what you do. The presenter will share strategies, tactics, and case studies to help develop the secret behaviors that drive leadership. Discover how to awaken the leader within you!

Josh Davies, The Center for Work Ethic Development, Denver, CO

Choose Your Own Adventure: Exploring All Paths to Develop Career Literacy

Informed career planning just got easier. The ASVAB Career Exploration Program (CEP) gives students an all-access pass to explore paths to all careers—college, vocational school, certifications, apprenticeships, licensure programs, and the military—all in one place. Participants will take away no-cost, ready-to-use tools they can use with their students.

Shannon Salyer, Department of Defense Office of People Analytics, Seaside, CA; Shernada Allen, Department of Defense Office of People Analytics, Washington, DC; Janet Bayer, Written, LLC, Chantilly, VA; Jeraline Johnson, School District of Palm Beach County, West Palm Beach, FL; Ted Hagert, Written, LLC, Starbuck, MN

Expand and Diversify Your Sustainable Revenue Sources for Career Pathways

Learn how Goodwill of North Georgia has gone from provider to intermediary, helping programs and college and nonprofit partners through public/private partnerships with USDA-FNS and SNAP E&T programs. Our revenue from SNAP E&T went from under $100k to a $2.4 million contract in three years.

Jenny Taylor, Goodwill of North Georgia, Decatur, GA

Workforce Readiness Incentive Grant: A Teacher Bonus Plan Connected to Industry Needs

As more and more states are linking secondary teacher bonuses to industry certifications, Idaho has taken a unique approach that departs from that model and focuses its efforts on rewarding teachers according to the number of students who demonstrate workforce readiness through a variety of assessments and competency awards. Attendees will learn about the tools Idaho has chosen to use, why we aren’t relying on industry certifications at the secondary level, and our long-term strategies for keeping teachers connected to the needs of industry.

Steve Rayborn, Amy Lorenzo, Idaho Division of Career and Technical Education, Boise, ID
Concurrent Sessions, Saturday 11:00–11:45

Oceans 12
SPAWB • FAS
Florida’s Manufacturing Ecosystem Expands to Include Manufacturing Education
This presentation will share the strategies and impacts of a growing number of partnership projects and activities involving FLATE (Florida Advanced Technological Education Center of Excellence, an NSF ATE funded center) and FloridaMakes, a NIST MEP (Manufacturing Extension Partnership). Marilyn Barger, FLATE, Tampa, FL

Oceans 11
SPAWB • FCAS
Breaking the Mold: MAGNET’s Early College, Early Career Program
What does it take to build a CTE program from the ground up? What are the fifteen elements necessary to ensure success? How do we make manufacturing cool again? Hear lessons learned from MAGNET’s groundbreaking youth apprenticeship program in advanced manufacturing, and best practices for breaking the mold in your CTE programs. (MAGNET is the Manufacturing Advocacy and Growth Network in Cleveland, OH.) Autumn Russell, Executive Director, MAGNET: The Manufacturing Advocacy and Growth Network, Cleveland, OH

Tarpon (2nd floor)
SAWB • FAES
Why Economics Matters: Labor Market Dynamics
The presenter will break down the complex (and often scary) concepts of economics to make sense of the changing labor market. He will guide participants through innovations that created today’s labor market and offer predictions for the future by linking the dynamics of economics, education, and workforce development. Terry Gilleland, Jr., Maryland Department of Labor, Baltimore, MD

Coral B
SPAW • FCAS
DACUM 2.0: Using Compression Planning for Industry-Aligned Curriculum
Educators and employers know the importance of aligning curriculum to workforce needs. However, few have the requisite two days for a DACUM. Columbus State helps solve this issue by pairing key strategies from the DACUM process with compression planning to conduct a jobs skills analysis in 75 percent less time. Tara Sheffer, Shane Kirby, Columbus State Community College, Columbus, OH

Coral C
SPAW • FCAS
ABCs of Tech Express: Articulating, Building, and Collaborating
Get to know Tech Express! We are more than articulation agreements. Tech Express Technical College graduates build on the credentials they have already earned. Tech Express is a partnership between Valencia College and Orange Technical College that provides pathways to stackable credentials through articulation agreements, collaboration, and advisement. Vicki Fine, Lisa Bliss, Anita Gentz, Gwen Murrell, Valencia College, Orlando, FL; Cynthia Mariani Gonzalez, Orange Technical College, Orlando, FL

Palani (2nd floor)
A • CA
From ESL and ABE to Community College: Moving Students Forward Using Integrated Services Delivery
Learn how a community-based organization and a community college, both part of the Dallas County AEL Consortium, collaborated to provide case management to Integrated EI Civics and IET participants in three career tracks. Attendees will receive copies of program flowcharts that can be adapted to their programs. Rachael Berhe, Miguel Brambila, Wilkinson Center, Dallas, TX

Build and Soar, Miami, Florida
Don’t miss the race car built by students of our Opening Session keynote, Barrington Irving. In 2012, the Experience Aviation team decided to take the Build a Plane concept and convert it into a Build a Car concept. Captain Irving and the Experience Aviation team then challenged 40 students from South Florida to construct a Factory Five GTM Supercar that performs at 215 mph using a Corvette engine and a Porsche transaxle. A kit car that was delivered in boxes of nuts, bolts, sheet metal, and a fiber glass frame was then built by students to completion utilizing STEM (science, technology, engineering, and math) skills. The result is a car that accelerates from 0 to 60 mph in just 2.7 seconds.
Concurrent Sessions
Sat 12:45–1:30

Oceans 2
SPAW • FCAES
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 that are available to support you and your career and technical education (CTE) programs (http://cte.ed.gov). Scott Stump, Assistant Secretary for Career, Technical and Adult Education, U.S. Department of Education, Office of Career, Technical and Adult Education (OCTAE)

Oceans 1
SPAWB • FCAES
FEATURED Construye DC Plus, Construction Pre-Apprenticeship Program, Adult ELL
Attendees will learn how to design an ELL workforce development program for an industry that has high demand but also ample workforce supply. Topics will include: Designing with the end-game in mind (program exit points), industry stakeholders, subject-matter experts, advisory committees, and contextualized curriculum development. Raul Medrano, Sandra Gonzalez, Carlos Rosario Intl Public Charter School, Washington, DC

Oceans 3
SPAWB • FCAES
Soft Skills: A Critical Component of the Pathway to Success
This session will explore WHAT soft skills are, WHY they are important, and HOW to develop and integrate them into your curriculum. The presenters will lead an interactive discussion focused on designing activities that promote the development of soft skills to unleash the full potential of graduates. Erik Christensen, Michele Heston, South Florida State College, Avon Park, FL

Oceans 4
SPAB • FCAES
LEAP Apprenticeships: Fostering Industry Partnerships to Create Employment Pathways for Success
Advancing Credentials through Career Pathways A team from Forsyth Tech Community College will share their ambitious timeline for building and launching an apprenticeship program from the ground up in six months. In this moderated discussion you’ll hear faculty, staff, and employer perspectives on the challenges of navigating state apprenticeship requirements, building a team of partners through the Business-Industry Leadership Team (BILT) model, and evolving curriculum to meet the needs of both employers and students. David Dinkins, John Carstens, Danielle Rose, Forsyth Technical Community College, Winston-Salem, NC; Art Cantin, Siemens, Winston-Salem, NC

Palani (2nd floor)
SPAW • FCA
Strengthening Your Pathways: Best Practices in Creating Exceptional CTE Programs
When schools endeavor to develop more meaningful pathways, students are better equipped to attain a deep understanding of course content. In this session, participants will delve into best practices for selecting CTE programs that embrace the rigor and relevance of Career Pathways. Mur Feldman, Denise Bodart, Realityworks Inc, Eau Claire, WI
Nomeus (2nd floor)

**PAW • FCAS**

**Career Boost Is Making a Difference: New Skills, New Job, New Life**

Come hear about Career Boost, a partnership involving adult education, a local workforce center, and a community college. This session will focus on creating pathways from adult education to postsecondary to employment using an integrated education and training model. The presenters will also discuss effective partner collaboration. *Melissa Burkhardt-Shields, Lisa Davey, Colorado School District 11, Colorado Springs, CO; Joy Zincone, Pikes Peak Community College, Colorado Springs, CO; Traci Marques, Pikes Peak Workforce Center, Colorado Springs, CO*

Oceans 12

**SPA • FCA**

**Differentiated Instruction in a Career Technical Classroom**

Participants will learn the fundamentals of differentiated instruction in the career technical classroom. The presentation will address how product, process, and content influence learning outcomes. Participants will reflect on their own classrooms and address how to apply the principles of differentiated instruction to help students meet standards and prepare for certifications. *Christopher Simmons, Goodheart-Willcox, Boynton Beach, FL*

Coral C

**SPA • FA**

**Making Career Connections for Core Academic, Gen Ed, and Adult Ed Teachers**

Career Pathways work best when the entire teaching staff and faculty are engaged in career-connected activities. Attendees will discover resources and classroom strategies designed to help academic, gen ed, and adult education teachers make stronger career connections for their students. *Hans Meeder, NC3T, Columbia, MD*

Coral B

**SPWB • FCAS**

**Strong, Talented, Empowered Women: Experiences of Women in STEM Postsecondary CTE Programs**

This session will address inclusion and retention through a proven methodology that will enable attendees to increase the persistence of women in male-dominated STEM programs of study. Using an interactive approach, attendees will use self-reflection and create recruitment and marketing strategies to strengthen their STEM diversity. *Valeria Williams, Mississippi Community College Board, Jackson, MS; Heather Annulis, University of Southern Mississippi, Hattiesburg, MS*

Coral A

**PW • FAS**

**Addressing the Need for Manufacturing Technology Instructors**

To address the growing need for instructors in advanced manufacturing, educators, employers, and industry associations came together to develop a recruitment campaign. An initial survey administered to retired manufacturing employees resulted in recommendations that will be shared during this session, along with the results of instructor recruitment initiatives that have been implemented. *Karen Wosczyna-Birch, Wendy Robicheau, College of Technology/Regional Center for Next Generation Manufacturing (RCNGM), Farmington, CT*

Oceans 11

**SP • FCAES**

**Career Pathway Portfolios and Action Plans for Middle and High School Students**

Whether you work with highly motivated students or with students who are undecided about the future, this session will provide a useful action plan for implementing Career Pathways portfolios. Attendees will receive instructions on how to empower students to critique and evaluate their own work and academic progress while following action plans that they will develop themselves. *Mali Souksavath, Heather Flute, Sisseton Wahpeton Sioux Tribe Tribal Education Department/Wiyukcan Ka Ecunpi, Agency Village, SD*
Concurrent Sessions

**Oceans 2**
*SPAWB • FCAES*

**Using Partnerships and Technology to Create Actionable Career and Education Journeys**
Attendees will learn how to create effective, self-funded CTE partnerships that provide the resources necessary to open doors for job placement for students and adults from underserved populations. **Michael Simpson**, PAIRIN, Denver, CO; **Julia Pirnack**, College in Colorado, a Division of the Colorado Department of Higher Education, Denver, CO; **Matt Gee**, Brighthivie, Chicago, IL; **Carrie Yeats**, Maher & Maher, Washington, DC

**Coral C**
*SP • FCAS*

**i-TECH: An Innovative Approach to Engaging High School Students in Technical Pathways**
Learn how Isothermal Community College has partnered with public schools and industry to develop the i-TECH Academy, an innovative program that engages high school students in technical pathways, fosters early college completion, and positions itself as a leader in preparing the next-generation workforce for 21st-century jobs. **Joe Looney**, Isothermal Community College, Spindale, NC

**Coral A**
*SPWB • FCAES*

**Preparation for Tomorrow: Partnerships, Pathways, and Credentials**
We want every student to graduate from high school career- and/or college-ready. Providing students with adequate support is one of the nation’s biggest challenges. Learn how a rural community college and high school collaboration is helping this population get high school diplomas and industry-recognized credentials. **Katrina Madden**, Piedmont Community College, Yanceyville, NC; **Lisa Lassiter**, Caswell County Schools, Yanceyville, NC

**Oceans 1**
*PAWB • FCAES*

**Results-Oriented Collaboration: Deconstructing Silos and Bringing All Stakeholders to One Table**
Learn how Rowan College at Burlington County’s Workforce Development Institute developed a model of system integration, combining the workforce development resources of county agencies and educational institutions into one hub. Supported by input from local employers, the model provides the training and education needed to prepare the workforce of today and tomorrow. **Anna Payanzo Cotton**, **Zahirah Sabir**, Rowan College at Burlington County, Mount Laurel, NJ

**Palani (2nd floor)**
*SWB • FCAES*

**Career and Technical Education Academy: Building the Future**
Are you looking to increase partnerships with local employers, get practical experience for students, and elevate student relationships? Learn how a rural district in Wisconsin team teaches two courses that provide students job shadow experiences, internships, financial awareness, work-readiness skills, and more. **Stephen Hadfield**, **Alyssa Anderson**, **Lindsay Meisner**, **Jordan Rayburn**, **Emily Krystowiak**, Pittsville School District, Pittsville, WI

**Tarpon (2nd floor)**
*SPA • FCAE*

**Linking High School, College, and Work: Accelerating Careers and Education**
The way young people move through education and work is changing. In this session, you will learn how a technical high school, a technical college, and Harley Davidson partnered in Milwaukee to change how students learn about and start careers and college while still in high school. **Jonathan Feld**, Milwaukee Area Technical College, Milwaukee, WI; **Aaron Shapiro**, Milwaukee Public Schools, Milwaukee, WI; **Erica Case**, Harley Davidson, Milwaukee, WI

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

**AUDIENCE**
*F Faculty  C Counselor  A Administrator  E Employer  S Staff*
Moving at the Speed of Business: Jump-Starting Apprenticeships and Pre-Apprenticeship Programs
This will be an engaging and interactive session recapping how a rural community college learned to move at the “speed of business” to address an urgent need for advanced manufacturing production and maintenance technicians. Attendees will leave with examples of promotional materials used for education and recruitment of students, parents, educators, and employers. Leslie Tomlinson, Tara Branscome, Northwest-Shoals Community College, Muscle Shoals, AL

Where Do We Start? Building a Career-Readiness Program from Scratch
Learn how to create a grassroots program in your community that will provide career-readiness training and opportunities for students. The presenters will share success stories about their development of a business advisory council and their collaboration with schools, higher education, parents, and businesses and community organizations. Brian Howard, Hannah Kilbride, Athens-Meigs ESC, Chauncey, OH; Tasha Werry, Building Bridges to Careers, Marietta, OH; Allison Ricket, Athens High School, The Plains, OH

Best Administrative Strategies: CTE Systemic Change Across Large School Districts
Creating change is hard work. Creating change that works across a large school district comprising twenty-two high schools is even harder. Attendees will learn cutting-edge strategies for creating systemic change, even in large metropolitan school districts. Scott Burke, Jefferson County Public Schools, Lakewood, CO

Development of the Cybersecurity Workforce: The Palo Alto Networks Cybersecurity Academy
To help meet the unprecedented demand for cybersecurity trained and certified individuals, this session will provide attendees with information on the benefits of becoming a Palo Alto Networks Cybersecurity Academy. JB Groves III, Wharton County Junior College, Richmond, TX

Developing 3-D Spatial Skills for STEM Success
Three-dimensional spatial skills are essential to success in most STEM fields. The presenter has developed curriculum and strategies shown to improve spatial skills. In this session, participants will learn about research findings in spatial cognition and will experience a portion of the curriculum. Sheryl Sorby, University of Cincinnati, Cincinnati, OH
Teaching Employability Skills: Methods That Work
In a survey by Quintessential Careers, more than 1,000 employers stated that their greatest need when seeking new hires is to have access to job candidates who possess strong employability skills. Informed by this research, the SkillsUSA Framework was created in 2014 because SkillsUSA realized the need for students—future employees—to be able to intentionally develop and communicate their abilities with respect to employability skills demanded by business and industry. But how do we teach employability skills effectively and measure the growth and development of these skills? When students choose an industry of interest to them and are provided with experiential learning activities, the learning is more meaningful, specific, and applicable, and their ability to articulate learning becomes more natural. Explore the advantages of project-based learning, scenario driven e-modules, and authentic assessment via the constructs of portfolio development as we contextualize learning around career readiness skills and lead students to success in personal, workplace, and technical skills grounded in academics. Courtney Ferrell, SkillsUSA, Leesburg, VA

North Carolina Youth Apprenticeship: A Pathway to Success
Conference attendees will learn about the youth apprenticeship screening and recruiting tool developed and replicated by North Carolina’s industry sponsors to attract and retain youth apprentices in high-skill, high-demand occupations. Participants will engage in small groups to utilize the North Carolina Youth Apprenticeship Guide developed by ApprenticeshipNC and its partners to determine best practices for implementing and scaling a youth apprenticeship program in their state. Elizabeth Standafer, ApprenticeshipNC, North Carolina Community College System, Raleigh, NC

Rigorous High School Math Lessons Contextualized into Construction, Manufacturing, and Business
Running a real business in high school algebra 1 and manufacturing classes. Building real houses in high school geometry for a nonprofit. Both are happening at our high school. Attendees will experience two activities they can use in their classrooms and will learn how to create their own activities. Tom Moore, Thompson Schools, Loveland, CO

Creating Stackable Certificates Aligned to Industry Standards and Job Opportunities
Imagine a CTE stackable certificate teaching to industry standards, created by educators, industry professionals, and professional organizations. Make this available to 114 community colleges and 2.1 million students. This is the California Horticulture Stackable Certificate. Learn how you can create your own career certificate for a college, region, or state. Both faculty and industry will present. Moderator: Laura Aron, Social Policy Research Associates, Oakland, CA. Panelists: Lindsay Ono, Bakersfield College, Bakersfield, CA; Sandra Giarde, California Landscape Contractors Association, Sacramento, CA; Claire Ehrlinger, Mira Costa College, Carlsbad, CA; Leimone Waite, Shasta College, Redding, CA

Are You Ready for a Local Needs Assessment Required by Perkins V?
The presenter will share tools designed to help prepare for rigorous local needs assessments. SREB is committed to helping state, district, and center leaders meet this challenge. The recently redesigned Making Schools Work Career Pathway and Curriculum/Instruction Reviews focus on five areas: instruction, curriculum, career pathways, student support, and leadership. Linda Floyd Smith, Southern Regional Education Board (SREB), London, KY
Concurrent Sessions, Saturday 3:00–3:45

Oceans 3
SP • FCAS

Helping Today’s Students Find Their Place

What does a person in a technology/engineering job actually do? Until students are able to answer that question, they are not well equipped to choose careers. This session will share strategies for helping students learn about careers they have never even considered, along with strategies for engaging ALL students. Attendees will also gain ideas and materials for increasing female enrollment in technical programs. Pamela Silvers, Asheville-Buncombe Technical Community College (A-B Tech), Asheville, NC

Coral C
PAW • FCAES

Dallas County Parent Promise:
A Promise to Access and Equity in Education

Dallas County Promise bridges student experiences, employers, and education. Attendees will see how Dallas is creating a stronger workforce and economy through gap funding, career pathways, success coaching, citywide collaboration, and stackable credentials. Monica Stansberry, Sheridan Nixon, Dallas County Community College District, Dallas, TX

Oceans 11
SPAWB • FAE

Entrepreneurship: The Innovative Vehicle for Workforce Readiness

Education’s focus across the globe is rapidly changing from an emphasis on test-based accountability in math and English skills to an emphasis on developing mindsets that create productive, engaged citizens who are equipped for the future of work. Entrepreneurship is an engaging project-based learning model that is critical to fostering business creation and the development of a stronger, more engaged workforce in every career pathway. Daniel Williams, Network for Teaching Entrepreneurship (NFTE), Miramar, FL; Ted Thompson, Network for Teaching Entrepreneurship (NFTE), New York, NY

Palani (2nd floor)
SPAWB • ASE

Building Industry-Driven Career Pathway Systems:
A Step-By-Step Guide

Learn how to build career pathway systems that align education and training programs with local industries. The presenter will share a step-by-step guide, provide examples of fully developed career pathways, and have an interactive discussion on how attendees can build their own career pathway systems. Thomas Hartman, Colorado Workforce Development Council, Denver, CO

Oceans 12
SPAWB • FAE

Preparing Technicians for the Future of Work

Advances in technology are changing industries at an unprecedented pace, transforming not only tasks and occupations but entire fields. Demand for positions involving tasks that can be automated will decline and, in some cases, disappear, while entirely new occupations will emerge. What implications will these changes have for technician education? In this session, attendees will engage in a dialogue about how community colleges can prepare technicians for the evolving realities of the future of work. Marilyn Barger, Florida Advanced Technological Education Center of Excellence (FLATE), Tampa, FL; Richard Gilbert, University of South Florida, Tampa, FL; Mike Lesiecki, CORD, Phoenix, AZ; Ann Claire Anderson, CORD, Waco, TX

Oceans 1
S • F

A “Motown” Take on a Multidisciplinary Project-Based Learning Design

This session will showcase a process used by a cohort of Detroit teachers to plan and implement a multidisciplinary, project-based learning design. Participants will leave with the tools needed to integrate technical learning with academic achievement across multiple disciplines. The end result is a real-world focus on standards-based learning that is both interesting and engaging for students. Karen Lee, Data Driven Systems, Farmington Hills, MI
Coral C
PWB • FCAE
Engaging with Employers and Getting Students Workforce Ready
The National Convergence Technology Center’s “BILT model” energizes business relationships to get the support programs need and align curriculum with workforce needs. Learn key strategies, hear how other schools adapted and adopted this approach, and receive free tools so your graduates have the skills they need to get hired. Mark Dempsey, National Convergence Technology Center (CTC), Frisco, TX

Tarpon (2nd floor)
SPB • FCAE
Creative Pathway Partnerships: Dual Credit Academies in High Schools
In this session, attendees will learn how Wisconsin Indianhead Technical College planned, developed, and implemented dual-credit academies that lead to industry-recognized credentials for high school students and CTE Incentive Grant funds for their school districts. Jeanne Germain, Wisconsin Indianhead Technical College, New Richmond, WI

Nomeus (2nd floor)
S • FCS
Generating Interest in Emerging Career Fields
Attendees will gain ideas for encouraging K-12 educators to expose students to career fields they may not have previously considered. These activities can be modified to develop a pipeline that applies to any career field. Mary Ann Nickloy, Kelly Fahrenkopf, Northeast Advanced Technological Education Center (NEATEC), Albany, NY

Oceans 12
SPAWB • FCAES
Advancing Credentials through Career Pathways
The Advancing Credentials through Career Pathways initiative actively engages employers to work in co-leadership roles with educators to design and support stackable credentials. Learn how a cohort of 15 community colleges from six states has collaborated around innovative career pathways, non-credit/credit integration practices, and employer engagement strategies to meet the workforce needs of tomorrow. Take away free tools you can deploy immediately and learn about upcoming technical assistance opportunities to advance your career pathways efforts. Hope Cotner, CORD, Waco, TX; Debbie Davidson, CORD, Kenosha, WI; Laura Aron, Social Policy Research Associates, Oakland, CA

Palani A (2nd floor)
SPWB • FCAES
Career Pathways: Moving Beyond Awareness Campaigns
Learn how a rural K-12 district and technical college partnered with community leaders and employers to develop and implement a robust strategic plan for engaging the entire community with career pathways. The session will highlight components of the plan, including a 6-12 staff in-service focused on manufacturing. Attendees will walk away with the tools necessary to replicate this work locally. Sarah Dillon, Northcentral Technical College, Wausau, WI; Kelly Fassbender, Unified School District of Antigo, Antigo, WI; Bree Kratz, Antigo High School, Antigo, WI
**Concurrent Sessions, Sunday 8:30–9:15**

**Coral A**

**AW • FCAS**

**Employability Skills: Being Career Ready**

The National Association of Workforce Boards (NAWB) has joined forces with Aztec Software to provide resources for job centers and adult education service providers through the Life Skills Education curriculum. This workshop will provide an overview of the U.S. Department of Education’s Employability Skills Framework and offer materials for starting a program that delivers instruction in employability skills. **Mitch Rosin**, Aztec Software, New York, NY

**Oceans 3**

**SPAW • FCAS**

**Integrating Mathematics into the Career and Technical Education World**

By the end of this session, participants will be able to implement pedagogical reforms for integrating mathematics into CTE that will move teachers away from didactic techniques such as lecturing and toward more facilitative techniques such as coaching, modeling, and project-based learning. **Evonski Bulgar**, Gadsden County School District/Gadsden Technical Institute, Quincy, FL

**Coral B**

**PAW • CS**

**Leveraging Agile Methodologies in Managing Career Journeys**

CTE educators must be able to respond to changing times—especially how technology is disrupting the future of work—and help our students do the same. In this workshop, participants can expect to use concepts in agile methodologies in reframing career journeys and develop strategies that emphasize the learner’s mindset. **Maria Dione Rivera**, UC Berkeley Coleman Fung Institute, Berkeley, CA

**Oceans 4**

**SWB • FCAES**

**“Ten Years of Success” Hotel Internship Program**

A hotel internship program can provide multiple work-based learning opportunities. Discover how to develop strong relationships within the hotel industry as well as curriculum that can provide students with the skills necessary to succeed not only in the workplace but in their lives as a whole. **Bobbie Weir**, Richardson Independent School District, Dallas, TX

**Palani B (2nd floor)**

**SPWB • CA**

**Tackling Misperceptions Among Youth Looking at College and Careers**

Leveraging the 2019 State of Students Report, the presenter will focus on students’ perceptions of college and careers. Attendees will tackle complex conversations about what students are seeing as their biggest barriers to employment and will explore what communities can do to help prepare students for the workforce. The presenter will connect the conversation to educational preparation and provide insights on how to serve students across the socioeconomic landscape. **Chris Laney**, CareerSource Suncoast, Bradenton, FL
Tarpon (2nd floor)
SPWB • FCAES
Engaging Manufacturing’s Next Generation Through Full Contact Innovation
Manufacturers need to inspire a new generation of skilled workers to fill high-tech, high-paying jobs. The solution: full contact innovation. Learn proven strategies from workforce development professionals on how to engage, recruit, train, and employ manufacturing’s next generation from nontraditional sources. Bill Padnos, National Tooling & Machining Association (NTMA), Cleveland, OH

Palani A (2nd floor)
PA • FCS
Evaluating and Addressing Needs: Supporting Special Populations Through Proactive Coaching
Certified coach trainers will demonstrate and discuss a structure that enables coaches to evaluate the needs of individual students and partner with them in addressing those needs. Trainers will focus on several special populations, including first-generation college students, minorities in STEM, students with criminal records, and military-connected students. Rebekah Sanchez, Sheryl Givings, Colleen Moore, North Central Texas College, Corinth, TX

Coral C
SPAWB • FCAES
Better the Planet Through Building Energy Efficiency
Learn about Florida’s first Energy Management and Controls Technology AS degree. Developed by Valencia College, the program prepares students to become highly trained technicians operating and maintaining technologically complex, “high performance” buildings. Topics will include industry partner development; K-12, female, and veteran student outreach; and student experiences both in the lab and in industry. Deb Hall, Arin Partington, Valencia College, Orlando, FL

Oceans 12
SP • FCAES
Family and Consumer Sciences: Career-Specific Training for Many, Employability Skills for All
The Framework for Family and Consumer Sciences (FCS) in CTE utilizes career trends and research to align CTE pathways into career fields that share foundational knowledge and skills. In addition to showcasing how FCS supports career-specific training, this session will demonstrate the unique resources FCS brings to CTE to equip students with employability skills. Reno Palombit, North Carolina Department of Public Instruction, Raleigh, NC; Alyson L. McIntyre-Reiger, Advancing Connections, Fountaintown, IN

Coral B
SPAWB • AE
Your Perfect Pairing: Education and Industry Working Together
Attendees will learn about a perfect pairing between a California Partnership Academy and industry. Results include not just advisory committee meetings but a monthly industry-led mentoring program for over seventy juniors, mock panel interviews for seniors, and internships for both faculty and students. Rebecca Bettencourt, E. & J. Gallo Winery, Modesto, CA; Ed Pelfrey, Ceres Unified School District, Ceres, CA

Oceans 3
SPAWB • FAE
Necessary Skills Now
Attendees will engage in a dialogue about how the Necessary Skills Now (NSN) Coordination Network (an NSF ATE project) can grow its emerging community of practice around employability skills for technicians. Packed with expertise, experience, and enthusiasm, the NSN-Network is a one-stop shop that gives educators and employers access to resources and tools for the classroom. Funded by NSF ATE, the NSN-Network is dedicated to ensuring that the rising STEM technician workforce is truly “ready for work” in the 21st century. Marilyn Barger, Florida Advanced Technological Education Center of Excellence (FLATE), Tampa, FL; Hope Cotner, John Chamberlain, CORD, Waco, TX
Concurrent Sessions, Sunday 9:30–10:15

Oceans 11
SPAWB • FCAES
Developing and Sustaining a Career Pathway System Using a Career Pathway Review
Participants will explore a career pathway review by examining five guiding elements: (1) labor market alignment; (2) student supports in achieving college and career readiness benchmarks; (3) non-duplicative content spanning a variety of learning settings; (4) ensuring that every student attains concentrator status; and (5) ensuring that every student completes intellectually demanding, authentic assignments. Debra LaMothe, Southern Regional Education Board (SREB), Atlanta, GA

Oceans 4
SPWB • FCAES
An Innovative Approach to Earning College Credit in High School
Chippewa Valley Technical College (CVTC) will share innovative programming options for high school partners, student and workforce success stories, and a blueprint for creating college credit opportunities in high school. Learn how the nursing prep academy created through CVTC’s partnership with regional high schools helps high school students get on the wait list for the nursing program and start in nursing courses in as little as one semester. The presenters will also share CVTC’s Business Management Associate Degree Program as the first in the state to enable high school students to graduate with both a high school diploma and an associate degree in business management. Kristel Tavare, Chippewa Valley Technical College, Eau Claire, WI; Laura Volbrecht, Fall Creek School District, Fall Creek, WI

Coral A
AW • FAS
Adult Literacy XPRIZE Communities Competition: App Impact and Distribution
Representatives from the Adult Literacy XPRIZE will provide an update on the Communities Competition, app distribution, and the impact the competition can have on adult education and workforce development. Monica Groves, XPRIZE, Culver City, CA

Beverage Break in Oceans 6/8
10:15–10:45
Coral B
SPA • FCA
The Game Changer: An Introduction to the Self-Coaching Model
Adult education life coaches will share teachings from the book *Self-Coaching 101*. The teachings suggest that we can change the results we get in our lives by changing our thoughts. Attendees will walk away with tools that can assist in changing their lives and the lives of those they serve.
DeAnn Beretta Day, Hannah Wannemuehler, The Excel Center, Indianapolis, IN

Oceans 4
SPAW • FCAES
Using High-Engagement Strategies When Contextualizing Instruction
How do instructors engage students to learn content? Successful teaching and learning builds community, explores prior knowledge, assesses understanding, is relevant, and provides application. This session will highlight what research says about student engagement, share best practices, and provide time to examine how employability skills can be taught using instructional strategies such as writing to learn, inquiry, collaboration, organization, and reading to learn. Betty Krohn, AVID for Higher Education, Dallas, TX

Oceans 12
SPA • FCAS
Trauma-Informed Practices for Supporting Special Populations in Career Pathways
The students who walk through our doors are fighting battles we know nothing about, so we must be prepared. This session will explore trauma-informed practices for supporting special populations. Before students can find success in Career Pathways, we should create environments designed to support students through their transitions to adulthood. Amal Amanda Issa, Career Ladders Project, Oakland, CA; Debra DiBiase, SIA Tech, Oceanside, CA

Coral A
SPWB • FCAES
Academies 101: Establish Your School As Elite Through Flexibility
What sets Advanced Placement (AP) and International Baccalaureate (IB) apart from other schools? Answer: Both have “programs.” Frustrated with the amount of funding and support rival schools were receiving for “programs,” we united as a staff to create the Academies at Green Mountain High School. Attend this session to learn how. Colleen Owens, Green Mountain High School, Lakewood, CO; Scott Burke, Jefferson County Public Schools, Lakewood, CO

Palani A (2nd floor)
S • AS
Idaho’s Program Quality Initiative: Infusing Resources to Strengthen Programs
Idaho’s recently launched Program Quality Initiative was designed not only to reward high-performing CTE programs but to infuse resources into programs that are struggling to meet key performance measures. The presenters will share lessons learned and promising practices, as well as strategies for states that are considering a similar approach to improving their program performance. Amy Lorenzo, Steve Rayborn, Idaho Division of Career and Technical Education, Boise, ID

Tarpon (2nd floor)
SPAWB • FCAES
TX FAME: Holistic Approaches to Workforce Innovation
This session will provide an introduction to the Texas Federation for Advanced Manufacturing Education (TX FAME) initiative and its efforts to prepare participants for a transforming vocational paradigm. Attendees will see how TX FAME works to ensure a bright workforce future through projected career pathways, firsthand skills-based training, and collaborative partnership building. Pooja Tripathi, Bexar County Economic and Community Development, San Antonio, TX; Leslie Cantu, Toyotetsu Texas, Inc. (TTTX), San Antonio, TX

Coral C
SPAWB • FCAES
Constructing Bright Futures and Forever Homes: A Partnership with Lake County Schools and Habitat for Humanity
Preparing students for high-skill, high-wage, and high-demand careers in construction is critical to growing our economy. Explore a local model that provides students real-world experiences, connects them with mentors in high-demand trades, and inspires low-income students to give back to their community. The Dream Team of educators and industry partners will showcase the program, highlighting key strategies that lead to apprenticeships, industry certification, and scholarship attainment for underserved students in rural Florida. This will be a fast-paced and interactive session with a question/answer period at the end. Lynnea Weissman, Lake County Schools, Tavares, FL; Danielle Stroud, Habitat for Humanity, Lake Sumter, FL
Closing Session Luncheon/LDA Recognition

Sunday 11:45–1:00 • Crystal ABC

Greeting
Claudia Maness, NCPN Director

LDA Recognition
Jeraline Johnson, LDA Chair

KEYNOTE: Designing Equality in the Classroom

Alexa Frank
Rachael Munkacsi
Senior Consultants, Gender Inclusion,
Deloitte Consulting, LLP

Alexa and Rachael will present a design-thinking approach to mitigating gender bias in an organizational environment. With a special focus on the technical classroom setting, they will discuss the value of using design thinking to create more gender-inclusive environments—customizable to the organization, its people, its resources, and its needs—and highlight simple, actionable ways anyone can harness the power of design thinking in the technical education space to promote gender equity. This session will also include a moderator panel with time for Q&A.

Prize Drawing
Immediately following the Closing Session, two free registrations to 2020 NCPN and a free trip to the Atlanta Marriott Marquis—site of 2020 NCPN—will be given.
Congratulations!

2018–2019 NCPN Leadership Development Academy Graduates

Zara Basham, Owensboro Community and Technical College, Owensboro, KY
Cynthia Baum, Lincoln Public Schools District Office, Lincoln, NE
Lori Brown, Maury County Public Schools, Columbia, TN
Marisela Canela, Glendale Community College, Glendale, CA
Lourdes Davenport, Tarrant County College NW Campus, Fort Worth, TX
Gregory Degenhardt, Catholic Charities, Albuquerque, NM
L.E. Foisia, Mt. San Antonio College, Walnut, CA
Keeley Gant, Columbia Basin College, Pasco, WA
Alyson Gaspar, Waubonsee Community College, Sugar Grove, IL
Kayla Harrity, Johnson County Community College, Overland Park, KS
Lesa Hefner, Duncan Public Schools, Duncan, OK
Clarence Hulse, Michigan City Economic Development Corporation, Michigan City, IN
Michele Jacobs, United Way of Greater Atlanta, Atlanta, GA
Dana King, Heartland Community College, Normal, IL
George Kinlaw, Richard J. Daley College, Chicago, IL
Karen Latuner, El Camino College, Torrance, CA

Anjela Madison, Valencia College, Orlando, FL
Caryn Parks, Oconee County Schools, Watkinsville, GA
Shannon Rider, Mt. San Antonio College, Walnut, CA
Christina Robinson, Richard J. Daley College, Chicago, IL
Monelle Rougeau, Region 4 Education Service Center, Houston, TX
Melissa Sadler-Nitu, Alamo Colleges, San Antonio, TX
Dr. Veena Sallan, Owensboro Community & Technical College, Owensboro, KY
Kelvin Simmons, Jasper County School District, Ridgeland, SC
Lisa Sleevar, Heartland Community College, Normal, IL
Tabitha Smith-Moore, Workforce Solutions for Tarrant County, Fort Worth, TX
Laurie Trafton, Oakland Community College, Auburn Hills, MI
Patricia Webb, Dallas County Community College, Dallas, TX
Pamela Westmoreland, Springfield Technical Community College, Springfield, MA
Edward Wilbanks, Athens Independent School District, Athens, TX
Patricia Woody, Yukon-Koyukuk School District, Fairbanks, AK

Closing Session Luncheon • Sunday, 11:45–1:00
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

**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.
Career Pathways Resources

Carl D. Perkins Career and Technical Education Act: Strengthening Career and Technical Education for the 21st Century Act
On July 31, 2018, the President signed the Strengthening Career and Technical Education for the 21st Century Act into law. This bill reauthorizes the Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV) and is referred to as Perkins V.

Perkins V reflects the 100-year federal commitment to Career Technical Education (CTE) by providing federal support for CTE programs and focuses on improving the academic and technical achievement of CTE students, strengthening the connections between secondary and postsecondary education and improving accountability. Perkins V affords states and local communities the opportunity to implement a vision for CTE that uniquely supports the range of educational needs of students—exploration through career preparation—and balances those student needs with the current and emerging needs of the economy. (https://www.careertech.org/perkins)

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
- 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
2019 NCPN Exhibits

Please visit our 2019 NCPN Exhibitors in the Exhibit Hall (Oceans 5–8). Exhibits are open Friday, 4:30–6:00, and Saturday, 7:45–3:45.

316 Amatrol, Inc.
2400 Centennial Boulevard
Jeffersonville, IN 47130
www.amatrol.com
Amatrol is a market leader in technical education, emphasizing hands-on skills via both virtual and equipment labs. Amatrol’s learning systems support pre-engineering, project-based learning, advanced manufacturing, and technology programs.

205 ASVAB Career Exploration Program
2834 Green Bay Road
North Chicago, IL 60064
www.asvabprogram.com
The ASVAB Career Exploration Program offers students validated aptitude and interest assessments and comprehensive planning tools at no cost to help them make informed career decisions.

202, 204, 206 ATE Community
10451 Nancy Watkins Dr.
Tampa, FL 33619
www.atecenters.org
The National Science Foundation’s Advanced Technological Education (ATE) Community ensures that our future technical workforce receives the education and tools necessary to excel professionally to meet the needs of our ever-growing high-tech industries.

212 AVID for Higher Education
11910 Greenville Avenue
Dallas, TX 75243
www.avid.org
AVID for Higher Education works to establish a shared vision for student success with institutions of higher education to systematically address the goals of increased learning, persistence, completion, and success in and beyond college.

203 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 and pre-HSE needs aligned to TABE/CASAS, and work-readiness and college prep.

208 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), currently utilized to assess skills and knowledge sets valued in entry-level bioscience positions.

219 Bring Your “A” Game
2907 Huron Street, Suite 200
Denver, CO 80202
www.bringyour-agame.com
Bring Your “A” Game is an engaging curriculum for building the seven foundational workplace skills of Work Ethic. Unlike boring online training programs, this curriculum is instructor-led, interactive, and consistently delivers lasting impact.

119, 121 Build and Soar
14850 N.W. 44th Court, Ste 203
Miami, FL 33054
www.experienceaviation.org
In 2012, the Experience Aviation team decided to take the Build a Plane concept and convert it into a Build a Car concept. Captain Irving and the Experience Aviation team then challenged 40 students from South Florida to construct a Factory Five GTM Supercar that performs at 215 mph using a Corvette engine and a Porsche transaxle. A kit car that was delivered in boxes of nuts, bolts, sheet metal, and a fiber glass frame was then built by students to completion utilizing STEM (science, technology, engineering, and math) skills. The result is a car that accelerates from 0 to 60 mph in just 2.7 seconds.

221 Certiport, A Pearson VUE Business
1276 S. 820 E.
American Fork, UT 84003
www.certiport.com
Certiport is the leading provider of learning curriculum, practice tests, and performance-based IT certification exams that accelerate academic and career opportunities for learners.

304 CompTIA
3500 Lacey Road
Downers Grove, IL 60515
www.comptia.org/academy
CompTIA’s Academic program provides curriculum, digital tools, and resources to help students earn industry-recognized credentials and take their place in the dynamic technology workforce.
2019 Exhibits

215
CORD
4901 Bosque Boulevard
Waco, TX 76710
www.cord.org
CORD has been leading change in education for 40 years through contextual curriculum, faculty development, technical assistance, and leadership in Career Pathways. Visit us to learn how we can help your school district, college, or state.

207
Couragion
649 N. Marion Street
Denver, CO 80218
www.couragion.com
Couragion provides work-based learning challenges for students and career literacy professional learning for educators. Our solutions improve classroom relevance and increase retention in education-to-employment pathways.

318
Energy Concepts, Inc.
404 Washington Boulevard
Mundelein, IL 60060
www.eci-info.com

218
ETA International
5 Depot Street
Greencastle, IN 46135
www.eta-i.org
ETA® International represents electronics professionals with over 80 industry-recognized and accredited certifications. Developed by industry experts, ETA certifications confirm both technical knowledge and hands-on skills.

201
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.

300
KET (Kentucky Educational Television)
600 Cooper Drive
Lexington, KY 40502
www.ket.org
Visit the KET booth to see how KET’s FastForward and Workplace Essential Skills help adult learners prepare for the GED® test and achieve new opportunities for the future.

314
Manufacturing Skill Standards Council
901 N. Washington Street, Ste. 600
Alexandria, VA 22314
www.msscusa.org
The Manufacturing Skill Standards Council (MSSC) is the nation’s leader in training and certifying foundational skills for front-line production and material handling technicians.

308
Moore Solutions, Inc.
1680 SE Lyngate Drive, Suite 202
Port St. Lucie, FL 34952
www.gomsi.net
MSi develops curriculum for career and technical education courses that lead the industry certifications in Microsoft, Adobe, QuickBooks, and many more.

209
NASCO
901 Janesville Avenue
Fort Atkinson, WI 53538
www.enasco.com
The Nasco Family & Consumer Sciences catalog offers a complete line of hands-on educational materials, games, food replicas, software, classroom equipment, furniture, housewares, and sewing machines.

214
National Center for College and Career Transitions
10320 Little Patuxent Parkway, Suite 300
Columbia, MD 21044
www.nc3t.com
NC3T offers resources to support your pathways and employer engagement work, including guides, coaching, workshops, and Seamless WBL, a work-based learning management tool.

216
National Geographic Learning/Cengage
200 Pier Four Boulevard
Boston, MA 02210
www.NGL.Cengage.com
National Geographic Learning, a part of Cengage, is a leading publisher of Pre K-12 school educational materials including science, social studies, mathematics, language arts, world languages, career and technical education and Advanced, honors, and electives.

213
PAIRIN
2628 Walnut Street
Denver, CO 80205
www.pairin.com
PAIRIN personalizes career exploration, hiring and professional development by removing unconscious bias and providing career opportunities to people with non-traditional backgrounds.
## 2019 Exhibits

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<td>312</td>
<td><strong>Performance Scrubs</strong>&lt;br&gt;1820 Greypointe Drive&lt;br&gt;Brentwood, TN 37027&lt;br&gt;www.performancescrubs.com</td>
<td>We are the largest supplier of USA-Made uniforms to colleges in America.</td>
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<td>200</td>
<td><strong>Realityworks</strong>&lt;br&gt;2709 Mondovi Road&lt;br&gt;Eau Claire, WI 54701&lt;br&gt;www.realityworks.com</td>
<td>Realityworks creates innovative learning tools for skills training. We offer interactive resources for CTE fields such as FACS, health science, agriculture, welding, and trade skills.</td>
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<td>320</td>
<td><strong>Silver Sun</strong>&lt;br&gt;6500 N. Military Trail #204&lt;br&gt;West Palm Beach, FL 33407&lt;br&gt;www.silversuncollections.com</td>
<td>Designer style jewelry and exquisite designer handbags at affordable prices!!</td>
<td></td>
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<td>306</td>
<td><strong>SkillsUSA</strong>&lt;br&gt;14001 Skillsusa Way&lt;br&gt;Leesburg, VA 20176&lt;br&gt;www.skillsusa.org</td>
<td>The Career Essentials suite, designed by some of the finest practitioners, empowers students to define, implement, and measure career readiness to excel in the workplace.</td>
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<td>220</td>
<td><strong>Southern Regional Education Board</strong>&lt;br&gt;592 10th Street NW&lt;br&gt;Atlanta, GA 30318&lt;br&gt;www.sreb.org</td>
<td>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.</td>
<td></td>
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<tr>
<td>302</td>
<td><strong>Stukent, Inc.</strong>&lt;br&gt;1690 International Way&lt;br&gt;Idaho Falls, ID 83402&lt;br&gt;www.stukent.com</td>
<td>Used by over 5,000 instructors in 50+ countries, Stukent develops internet marketing courseware through real-world simulations, digital textbooks, and mentoring sessions from industry professionals.</td>
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## Florida Student Showcase

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<td><strong>Orange County FFA Federation</strong>&lt;br&gt;Orlando, FL&lt;br&gt;www.ffa.org</td>
<td>Director: Danny Garner (<a href="mailto:danny.garner@ocps.net">danny.garner@ocps.net</a>)</td>
<td>FFA is an intra-curricular student leadership organization for students enrolled in agriculture education. FFA is a dynamic youth organization that changes lives and prepares members for premier leadership, personal growth, and career success. FFA develops career potential in its members, helping them discover their talent through hands-on experiences and giving them the important tools to achieve real-world success in whatever career they choose to pursue.</td>
<td></td>
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<td>113</td>
<td><strong>Girls Coding/SECME Club</strong>&lt;br&gt;Apopka, FL&lt;br&gt;Director: Angel Maldonado (<a href="mailto:angel.maldonadoll@ocps.net">angel.maldonadoll@ocps.net</a>)</td>
<td></td>
<td>AMMS Mousetrap Car/Pressure Vessel&lt;br&gt;The Mousetrap Car Engineering Design Competition requires participation in four areas: performance run, technical report, design drawing, and team interview with judges. Specific objectives of the Mousetrap Car design challenge included the following: (A) Carry a glass marble with weight approximately 21 grams and diameter of approximately 1” (25 mm). (B) Using no glue or tape, permanently affix the marble to the Mousetrap Car. (C) No wedging the marble between the bait hook and the spring. (D) The car had to be designed to allow for removal of the marble with minimal effort so that it could be examined by the judges. (E) Transport the marble through the entire run.</td>
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<td>115</td>
<td><strong>AMMS VEX Robotics</strong>&lt;br&gt;Apopka, FL&lt;br&gt;Angel Maldonado (<a href="mailto:angel.maldonadoll@ocps.net">angel.maldonadoll@ocps.net</a>)</td>
<td></td>
<td>The object of the Turning Point robotics competition was to create a robot with the correct specifications to attain a higher score than the opposing alliance by scoring caps, scoring flags, and by alliance parking or center parking robots on the platforms. A bonus is awarded to the alliance that has the most points at the end of the autonomous period. A team interview and participation in The Art of Imagineering was also required as part of the overall team ranking.</td>
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Exhibit Hall

Hours: FRI 4:30–6:00 • SAT 7:45–3:45

Renaissance Orlando at SeaWorld
Oceans Ballroom 5–8

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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.
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