



PATHWAYS TO COLLEGE & CAREER READINESS

CareerClusters

8th Annual National Career Clusters Institute

Using Career Pathways to Reach New Heights

June 14-16, 2010 | Denver Marriott Tech Center | Denver, Colorado



Registration

Pre-Session Registration Desk Hours

Located at the registration desk.

Sunday: 7 a.m. – 1 p.m.

General Institute Registration

Located at the registration desk as follows:

Monday: 7 a.m. – 5 p.m.

Tuesday: 7 a.m. – 4 p.m.

Wednesday: 7 a.m. – 11 a.m.

Help Desk

A help desk will be available at the registration desk.

Name Badges

Name badges are required at all Institute sessions and events, including the evening reception. Lost name badges may be replaced at the registration desk.

Meals Provided

Institute registration fees include the following:

Continental Breakfasts

Tuesday and Wednesday, 7 a.m. – 8 a.m.

Institute Luncheon

Tuesday, 11:45 a.m. – 12:45 p.m.

NOTE:

Your name badge is your ticket to a meal/function!

Internet Access

Complimentary Internet service is available in guest rooms and the Atrium Foyer.

Message Board

A board will be provided outside the registration desk for Institute updates as well as personal messages. You may pick up or leave messages at any time.

Continuing Education Units

New this year! For the first time, the Institute is offering attendees the opportunity to earn Continuing Education Units (CEUs). Educators will be able to acquire CEUs while they learn about the most up-to-date best practices taking place with Career Clusters.

Evaluations

Your evaluation of the 2010 National Career Clusters Institute helps us make future events better for you. Please be sure to complete the overall conference evaluation included in your packet as well as the forms available in each breakout room.

Sponsor Exhibits

Sponsor exhibits are displayed in the lobby near the registration desk during the following hours:

Monday: 7 a.m. – 5 p.m.

Monday Reception: 5:10 p.m. – 6:30 p.m.

Tuesday: 7 a.m. – 5 p.m.

Lost and Found

All articles will be held at the registration desk.

Transportation

The Denver Marriott Tech Center is located 22 miles from the Denver International Airport. The following transportation is available to the hotel:

Airport SuperShuttle, which provides a group discount for Institute guests. Call 800-258-3826.

Big Sky Shuttle, which also provides roundtrip discounts for Institute guests. Call 877-336-8267.

Taxis, which charge a flat fee of \$60.



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PATHWAYS TO COLLEGE & CAREER READINESS

Career Clusters

New Career Clusters Products COMING SOON

- Earning potential information
- Student-focused
- Green jobs for every Career Cluster
- Listings of hot jobs
- Labor market data

Play



and Win Big!

Free Registration and Accommodations for the 2011 Institute • New Career Clusters Products

Play Bingo and earn your chance to win at The National Career Clusters Institute. Complete the Bingo card found in your welcome packet and become eligible for the Institute raffle, which offers incredible prizes.

How to win: Find your Bingo card in your welcome packet and head to the Sponsor Exhibit. Visit each sponsor and ask them to punch your Bingo card. When you fill out your card, return your card to the registration desk. Be present during the Closing General Session when the raffle takes place. Cross your fingers!

Participating Sponsors:

**Kuder, Inc. • Jones & Bartlett/CDX • Home Builders Institute
National Research Center for Career Technical Education (NRCCTE) • Relevant Classroom
Army National Guard • NOCTI • Career Cruising**

Please check your Bingo card for full listing of sponsors. New sponsors may be added to your list.

Grand Prize

Complimentary registration for the 2011 National Career Clusters Institute in Atlanta and a free night at the Marriott Atlanta Marquis.

Third Place

\$100 gift certificate toward Career Clusters products.

Second Place

Full set of 16 Career Clusters brochures.
(\$40 retail value)

New for the 2010 National Career Clusters Institute:

Earn Continuing Education Credits!

For the first time the National Career Clusters Institute is offering attendees the opportunity to earn Continuing Education Units (CEUs). Educators will be able to acquire CEUs while they learn about the most up-to-date best practices taking place with Career Clusters.

The Institute has been accredited by the University of Louisville's Delphi Center for Teaching and Learning, to offer 12 hours of CEU-earning potential. One hour is equivalent to one-tenth of a unit. The maximum possible units earned will be 1.2 units, which include requisite attendance at the three general sessions. Cost is \$50 flat rate to participate; educators may earn the maximum units available. Vendor sessions do not qualify for CEU credits.

Earning CEUs at the Institute can be done in a few easy steps:

STEP 1:

Pick up your Participant Summary Form.

When you arrive at the Institute, visit the registration desk to pick up your Participant Summary Form. Follow instructions on the form, entering your general information, and then follow the additional steps outlined below. Note: do not lose this form! It is the only evidence you will have of your participation, so hold onto it until the end of your time at the Institute.

STEP 2:

Speaker signatures at breakout sessions.

Each breakout you attend will be an opportunity for you to count toward earning CEUs. After the session, request the speaker's signature (they will be expecting this) on the line provided on your Participant Summary Form. This step will verify your participation and is essential for receiving credit. Before you leave the Institute, please be sure you have the signatures of all speakers from the sessions you attended. Without these, you will not receive credit. General sessions will be awarded credit as long as you attend and check next to the box provided on your Participant Summary Form; signatures are not required for general sessions in order to receive credit.

STEP 3:

Turn in the paperwork and payment.

You will have six weeks following the completion of the Institute to submit your Participant Summary Form and payment. There is a one-time fee of \$50. You will submit payment via check (payable to University of Louisville) with your paperwork or call to pay via credit card.

Julijana Curcic

Delphi Center for Teaching and Learning
University of Louisville
Shelby Campus, 110 Founders Union building
Louisville, KY 40292

If you have any questions about payment at any point, please contact Ms. Curcic at julijana.curcic@louisville.edu or call 502-852-5636.

STEP 4:

Receive your certificate!

You will receive a certificate via mail with your name, the Institute's name, the number of hours accumulated and how many CEUs you have earned. (If you have questions about the certificate, please contact Ms. Curcic from the University of Louisville – see contact information above).



Career Clusters Will Serve as a Model for Education and CTE

A Message from NCTEF President

Institute Attendees,

Welcome to the 8th annual National Career Clusters Institute and to the Mile High City – Denver, Colorado! As President of the National Career Technical Education Foundation (NCTEF) and our partner organization, the National Association of State Directors of Career Technical Education Consortium (NASDCTEc), I want to thank you for joining us.

Being in Denver, I can't help but reflect upon the pioneering spirit of those who explored and settled the West. They were undaunted by the obstacles they faced, not knowing if they had the resources or tools they would need to overcome the challenges that would come before them. They were optimists who believed their efforts would lead them to a better place. There are many parallels we can draw between those unknowns the pioneers faced and our current environment.

While the global economy and the current economic challenges facing our nation do present an unknown future, there is one thing for certain – career technical education (CTE) is part of the solution. Recently, NASDCTEc adopted - Reflect, Transform, Lead: A New Vision for Career Technical Education- that places Career Clusters and programs of study at the center of the agenda to prepare all students to succeed in college and their careers.

The journey to implement this vision will not be easy. But we are confident that together we too can be undaunted by the challenges before us and be bold pioneers who will implement the goals and action steps laid out in our new vision: Reflect, Transform, Lead. Please visit www.careertech.org to learn about the new vision and how you can get involved! Thank you for the work you each and every day on behalf of students.

Sincerely,

June S. Sanford

President

National Career Technical Education Foundation

National Association of State Directors of Career Technical Education Consortium



History of Career Clusters

Did you know that it was the U.S. Department of Education that identified the 16 Career Clusters as a way of reframing vocational education as it went through the name change career technical education? In 2001, the States' Career Clusters Initiative was established to provide the leadership for the continued development of Career Clusters. Over the last nine years, The National Career Clusters framework, which incorporates nationally validated Career Cluster models and knowledge and skills statements, has helped transform career technical education; to build partnerships among education, workforce development and economic development and to help more students find their passion and success. To learn more about the history of Career Clusters, visit: <http://www.careerclusters.org/publications.php>.

Sunday • June 13, 2010 and Monday • June 14, 2010

Pre-Institute Sessions

All Pre-Institute Sessions are pre-registered.
See page 9 for detailed schedule.

Monday • June 14, 2010

7 a.m. – 5 p.m.	Registration	Hotel Registration Desk
1 p.m. – 2:30 p.m.	Opening Session	Evergreen Ballroom
2:45 p.m. – 3:45 p.m.	Session A: Concurrent Breakouts	See Program Details
4:05 p.m. – 5:05 p.m.	Session B: Concurrent Breakouts	See Program Details
5:10 p.m. – 6:15 p.m.	Institute Reception	Atrium Foyer

Tuesday • June 15, 2010

7 a.m. – 4 p.m.	Registration	Hotel Registration Desk
7 a.m. – 8 a.m.	Continental Breakfast	Atrium Foyer
8 a.m. – 9 a.m.	General Session	Evergreen Ballroom
9:20 a.m. – 10:20 a.m.	Session C: Concurrent Breakouts	See Program Details
10:20 a.m. – 10:40 a.m.	Institute Break	Atrium Foyer
10:40 a.m. – 11:40 a.m.	Session D: Concurrent Breakouts	See Program Details
11:45 a.m. – 12:45 p.m.	Institute Luncheon	Rocky Mountain Event Center
1 p.m. – 2 p.m.	Session E: Concurrent Breakouts	See Program Details
2 p.m. – 2:20 p.m.	Institute Break	Atrium Foyer
2:20 p.m. – 3:20 p.m.	Session F: Concurrent Breakouts	See Program Details
3:40 p.m. – 4:40 p.m.	Session G: Concurrent Breakouts	See Program Details

Wednesday • June 16, 2010

7 a.m. – 9 a.m.	Registration	Hotel Registration Desk
7 a.m. – 8 a.m.	Continental Breakfast	Atrium Foyer
8 a.m. – 9 a.m.	Session H: Concurrent Breakouts	See Program Details
9:20 a.m. – 10:20 a.m.	Session I: Concurrent Breakouts	See Program Details
10:20 a.m. – 10:40 a.m.	Institute Break	Atrium Foyer
10:40 a.m. – 12 p.m.	Institute Closing Session	Evergreen Ballroom

NOTE: During each breakout session, a meeting room will be available for State Teams to meet privately. If you have not reserved a room, please visit the registration desk for availability.



Monday • June 14, 2010

	Option	Sessions (Circle one from each row)	Title
Session A 2:45 p.m. – 3:45 p.m.	#1	A1 A2 A3 A4 A5 A6 A7 A8 A9	
	#2	A1 A2 A3 A4 A5 A6 A7 A8 A9	
Session B 4:05 p.m. – 5:05 p.m.	#1	B1 B2 B3 B4 B5 B6 B7 B8 B9	
	#2	B1 B2 B3 B4 B5 B6 B7 B8 B9	

Tuesday • June 15, 2010

	Option	Sessions (Circle one from each row)	Title
Session C 9:20 a.m. – 10:20 a.m.	#1	C1 C2 C3 C4 C5 C6 C7 C8 C9	
	#2	C1 C2 C3 C4 C5 C6 C7 C8 C9	
Session D 10:40 a.m. – 11:40 a.m.	#1	D1 D2 D3 D4 D5 D6 D7 D8 D9	
	#2	D1 D2 D3 D4 D5 D6 D7 D8 D9	
Session E 1 p.m. – 2 p.m.	#1	E1 E2 E3 E4 E5 E6 E7 E8 E9	
	#2	E1 E2 E3 E4 E5 E6 E7 E8 E9	
Session F 2:20 p.m. – 3:20 p.m.	#1	F1 F2 F3 F4 F5 F6 F7 F8 F9	
	#2	F1 F2 F3 F4 F5 F6 F7 F8 F9	
Session G 3:40 p.m. – 4:40 p.m.	#1	G1 G2 G3 G4 G5 G6 G7 G8 G9	
	#2	G1 G2 G3 G4 G5 G6 G7 G8 G9	

Wednesday • June 16, 2010

	Option	Sessions (Circle one from each row)	Title
Session H 8 a.m. – 9 a.m.	#1	H1 H2 H3 H4 H5 H6 H7 H8	
	#2	H1 H2 H3 H4 H5 H6 H7 H8	
Session I 9:20 a.m. – 10:20 a.m.	#1	I1 I2 I3 I4 I5 I6 I7	
	#2	I1 I2 I3 I4 I5 I6 I7	

All Pre-Institute Sessions have been pre-registered at an additional fee. If you have not pre-registered and are interested in a particular session, please visit the registration desk for more information and availability.

Sunday • June 13, 2010

Career Pathways Leadership Certification Workshop

8 a.m. – 4:30 p.m. EVERGREEN B

Two Step Process for Certification (see Wednesday). Hosted by Center for Occupational Research and Development (CORD). For more information, please contact Debra Mills at dmills@cord.org or 217-247-9930.

Introduction to Career Clusters and Pathways

1 p.m. – 3 p.m. EVERGREEN E

Hosted by Seth Derner. For more information, please contact Seth Derner at sderner@vivayic.com or 800-280-7272.

Pathway Assessments: More Availability, More Progress

1 p.m. – 3:30 p.m. EVERGREEN F

Hosted by Occupational Competency Testing Institute (NOCTI) and The Whitener Group. For more information, please contact John Foster, President/CEO at john.foster@nocti.org or 800-334 6283, ext. 218.

Monday • June 14, 2010

Problem-Based Learning: Developing Authentic Problem Based Learning Instructional Materials

8 a.m. – 11:30 a.m. BLANCA PEAK

Hosted by Frances Beauman and Mrs. Sandy Dunkel, Assistant Project Director, of Two Rivers Professional Development Center in Illinois.

How Career Clusters Support the Linkage Between Career Academies and Career Technical Education

8 a.m. – 11:30 a.m. EVERGREEN E

Hosted by John Davidson and Daniel Smith, National Career Academy Coalition (NCAC). For more information, please contact John Davidson at john.davidson@arkansas.gov or 501-682-1040.

Integration – Career Clusters – Technology: A Powerful Combination

8:30 a.m. – 11:30 a.m. EVERGREEN F

Hosted by Barbara Orwig, President/Publisher, Career Communications, Inc. For more information, please contact Barbara Orwig at pub@carcom.com or 913-362-7788.

Rethink the Business Curriculum: Build Rigorous Business Administration Programs of Study

8:30 a.m. – 11:30 a.m. CONIFER 1

Hosted by James R. Gleason, Ph.D, President/CEO of MBA/ Research and Curriculum Center. For more information, please contact James at gleason@mbaresearch.org or 800-448-0398, ext. 215.

Ingredients of the Perfect Test

9 a.m. – 11:30 a.m. CONIFER 2

Hosted by NOCTI. For information, please contact John Foster, President/CEO at john.foster@nocti.org or 800-334-6283, ext. 218.

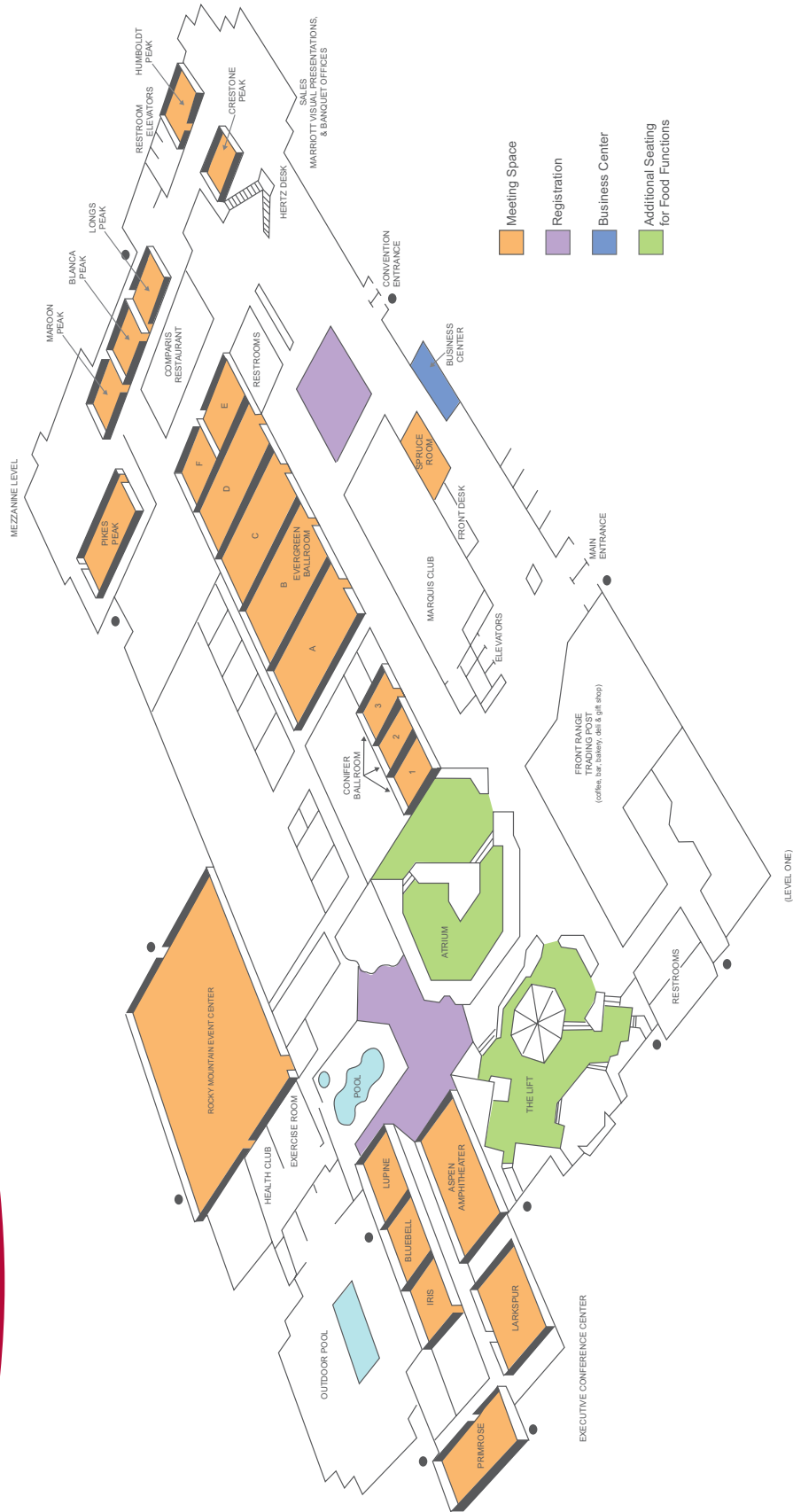
Wednesday • June 16, 2010

Career Pathways Leadership Certification Workshop


9 a.m. – 11 a.m. LARKSPUR


Two Step Process for Certification (see Monday). Hosted by CORD. For more information, please contact Debra Mills at dmills@cord.org or 217-247-9930.

DENVER MARRIOTT TECH CENTER FLOOR PLAN




Career Cluster Strands


 Green-Focused Programs of Study Series. These sessions feature state models.

 These vendors demonstrated a commitment to be environmentally friendly at the Institute.


Vendor Sessions

 Sponsors that will host sessions.

Clusters as a Model for Collaboration


 Sessions in this strand will share examples (state, local and regional) in which leaders in education (secondary and postsecondary), workforce development, economic development and/or business work together using Career Clusters as the unifying model/approach.

Innovations in Implementing Career Clusters


 Sessions in this strand are targeted for secondary and postsecondary administrators at the state, district and local levels. Sessions will provide practical advice, examples and resources for administrators who seek to implement Career Clusters or to enrich their current

implementation of. Session may include a focus on how Career Clusters align initiatives and improvement efforts, the impact of Career Clusters on curriculum, guidance and/or community engagement activities, how Career Clusters help align learner levels, etc.


Career Clusters and Programs of Study: Guidance, Instruction, and Assessment

 Sessions in this strand will share examples of the impact Career Clusters' innovative teaching and learning strategies can have in shaping programs of study and career technical education efforts in secondary schools and postsecondary systems.


Instruction and Innovations in 1 of the 16 Career Clusters

 Sessions in this strand will share examples of successful efforts to develop new tools, resources or approaches in one or more of the 16 Career Clusters. Please be sure to specify the name of the Career Cluster in which your session applies.

Other




 These sessions apply to all audiences and cross varied strands.

Audience Addressed and Session Strand







Representatives of workforce development	Representatives of economic development	State administrators of career technical education	Postsecondary administrators	Secondary administrators	Postsecondary faculty	Secondary teachers	Counselors	Program Session Number	Breakout Session Title
		●				●	●	A1	Separated by a Common Language: What Workforce Information Can (and Can't) Tell you About Career Clusters
					●	●	●	A2	Entrepreneurship Integrated into Every Career Cluster
				●		●	●	A3	Pipeline, Clusters, Programs of Study, Oh My!
●	●	●	●	●	●	●	●	A4	A Historical Perspective to Career Clusters
		●		●		●		A5	Creative Ways to Implement Career Cluster Knowledge and Skills: Be a Part of the Future!
●				●		●		A6	Integrating Your Career Cluster Curriculum with the Reality of the Workplace
●	●	●	●	●	●	●	●	A7	 The Green-Focused Programs of Study Technical Assistance Academy
●	●	●	●	●	●	●	●	A8	A Conversation with Don Henderson, Spotlight Speaker; Creative Expressions, Apple Inc.

CROSSWALK MATRIX OF BREAKOUT SESSIONS






Representatives of workforce development	Representatives of economic development	State administrators of career technical education	Postsecondary administrators	Secondary administrators	Postsecondary faculty	Secondary teachers	Counselors	Program Session Number	Breakout Session Title
●	●	●	●	●	●	●	●	A9	ABCs of Career Clusters
●	●	●	●	●	●	●	●	B1	Focus on Clusters – Architecture & Construction; Manufacturing; Transportation, Distribution & Logistics
					●	●	●	B2	Making That Career Cluster Fit: Matching College Programs with Multiple Independent School Districts
●			●	●				B3	Committed Partners + Shared Leadership + Integrated Approach = Successful School Reform for Workforce Development. Updates on a New Pre-Engineering Career Cluster Initiative
		●			●	●		B4	Technical Communications: Rigor and Relevant Writing in Career and Technical Classrooms
●	●	●	●	●	●	●	●	B5	A Listening Session with Brenda Dann-Messier, Assistant Secretary of the Office of Vocational and Adult Education
		●		●		●		B6	The Future of Learning: CTE Students in Business, Management and Administration and Architecture and Construction Clusters Engaged Through Project-Based Learning in the Business Community
●	●	●	●	●	●	●	●	B7	 Developing State Models for Green-Focused Programs of Study – Georgia
		●	●	●				B8	Building a Technical Skill Inventory Database One State at a Time
●	●	●	●	●	●	●	●	B9	 Army National Guard: Your Partner in Career Education VENDOR
●	●	●	●	●	●	●	●	C1	Career and Technical Programs of Study: A Design Framework
		●		●		●		C2	Getting it Right: Performance-Based Curriculum Integration in Career Academies and Pathway Programs (Repeated in D2)
		●	●	●				C3	Pathways to Success: A Tech Prep Model for Pre-Engineering
	●			●		●		C4	Creating Pathways to Success: High School Redesign Meets the 21st Century!
●		●					●	C5	Alabama SUCCESS Initiative: Supporting the Career Cluster Education Student System
	●				●	●		C6	Dynamic and Proven Economic Collaboration Models for Communities and Educators to Create Film and Digital Media Programs
●		●	●	●	●	●		C7	The Get-Into-Energy Career Pathways Initiative
●	●	●	●	●	●	●	●	C8	 Developing State Models for Green-Focused Programs of Study – Illinois
●	●	●	●	●	●	●	●	C9	Focus on Clusters: Human Services; Hospitality & Tourism
●	●	●	●	●	●	●	●	D1	A Conversation with Kelly Green, Guest Speaker; Microsoft Corporation
		●		●		●		D2	Getting it Right: Performance-Based Curriculum Integration in Career Academies and Pathway Programs (Repeated in C2)
●	●	●	●	●	●	●	●	D3	Sharing National Trends and Views from the Hill (Repeated in I7)

CROSSWALK MATRIX OF BREAKOUT SESSIONS

Representatives of workforce development	Representatives of economic development	State administrators of career technical education	Postsecondary administrators	Secondary administrators	Postsecondary faculty	Secondary teachers	Counselors	Program Session Number	Breakout Session Title
		●	●	●				D4	College and Career Transitions Coordinators Lead the Way for Career Clusters in Louisiana
		●			●	●		D5	Introduction to The National Career Clusters Knowledge and Skill Statements
		●	●	●				D6	Florida's Statewide Biotechnology Program of Study
●	●	●	●	●	●	●	●	D7	Focus on Clusters: Business, Management & Administration; Marketing; Finance
●	●	●	●	●	●	●	●	D8	 Developing State Models for Green-Focused Programs of Study – <i>Ohio</i>
●	●	●	●	●	●	●	●	D9	Career Cruising: A Complete Guidance Experience 
			●	●			●	E1	The STEM Equity Pipeline: Engineering and Technology, Science and Mathematics
●	●	●	●	●	●	●	●	E2	Health Information Technology (HIT): New Career Opportunities for Health Science and IT Students
●	●	●	●	●	●	●	●	E3	Building Partnerships with Business and Industry to Advance America's Workforce
		●		●		●		E4	Innovative Strategies Steering Career and Technical Education Programs into Career Academies
			●	●			●	E5	Tools to Assist in Local Career Clusters Implementation
		●		●		●		E6	A.I.M. For College Success
●	●	●	●	●	●	●	●	E7	Focus on Clusters: Law, Public Safety, Corrections & Security; Government & Public Administration
●	●	●	●	●	●	●		E8	 Developing State Models for Green-Focused Programs of Study – <i>Oregon</i>
●	●	●	●	●	●	●		E9	 "Know, See, Do, Prove" – An Instructional Methodology Delivered via CDX Systems which Delivers Results that Textbooks Cannot 
		●	●	●	●	●		F1	Using Statewide Articulation Agreements as the Vehicle to Drive Rigorous Programs of Study
●	●	●	●	●	●	●		F2	A New Vision for Career Clusters and Career Technical Education (Repeated in H4)
●	●			●				F3	A Community Partnership – A Collaboration that Works!
●		●					●	F4	North Carolina Career Clusters Guide
				●		●		F5	Aligning Programs of Study Outcomes, Curriculum, and Assessments Using Webb's Alignment Tool
		●		●			●	F6	Increasing Student Success
●	●	●	●	●	●	●	●	F7	Focus on Clusters: Information Technology; Science, Technology, Engineering & Mathematics; Arts, A/V Technology & Communications
●	●	●	●	●	●	●	●	F8	 Developing State Models for Green-Focused Programs of Study – <i>New Jersey</i>
		●	●	●				F9	What do you Need to Implement Rigorous Programs of Study?

CROSSWALK MATRIX OF BREAKOUT SESSIONS



Representatives of workforce development	Representatives of economic development	State administrators of career technical education	Postsecondary administrators	Secondary administrators	Postsecondary faculty	Secondary teachers	Counselors	Program Session Number	Breakout Session Title
	●			●		●		G1	The Digital Media Council: Connecting Industry and Education to Benefit the Workforce Pipeline
●	●	●	●	●	●	●	●	G2	Open Forum on Programs of Study
		●		●		●		G3	Standards Based Curriculum: Professional Development Framework for Implementation at the Secondary Level
		●	●	●				G4	Using Career Clusters Knowledge and Skill Statements to Design Programs of Study
		●		●		●		G5	Professional Development on Use of Assessment Data to Improve Programs of Study: A National Research Center Project
●	●	●	●	●	●	●	●	G6	Microsoft School Highlight Session – Fostering an Entrepreneurial Spirit in Arts, Audio/Visual Technology and Communications (Repeated in I4)
●	●	●	●	●	●	●	●	G7	Focus on Clusters: Health Science; Agriculture, Food & Natural Resources
				●		●	●	G8	Utilizing Career Pathways for Individualized Academic and Career Plans
				●		●	●	G9	Real-World Chemistry Instruction for a Career Clusters Setting
		●		●		●		H1	Designing a Health Science Program of Study: Step for Success
●					●	●		H2	Scenario-Based Assessments of Core IT Applications Across Career Clusters
	●	●					●	H3	Individual Career and Academic Plans: Multiple Years of Exploration Under the Cluster Umbrella
●	●	●	●	●	●	●	●	H4	A New Vision for Career Clusters and Career Technical Education (Repeated in F2)
		●		●			●	H5	Partnering to Achieve Comprehensive Career Guidance for all Students!
●	●	●	●	●	●	●	●	H6	 Green-Focused Programs of Study: the Industry Perspective
				●		●	●	H7	Implementation Of Career Clusters and What's Next?
●	●	●	●	●	●	●	●	H8	 Career Cluster Frameworks – Guiding Systematic Career Exploration, Kuder, Inc. VENDOR
		●		●		●		I1	What Makes Integration Work? Findings from the NRCCTE Curriculum Integration Studies
	●	●	●	●	●	●	●	I2	How Career Technical Student Organizations (CTSOs) are Integrating Career Clusters Into Their Programs: A Panel Discussion
		●				●	●	I3	Implementing Authentic Assessment with STEM Career Curriculum
●	●	●	●	●	●	●	●	I4	Microsoft School Session: Fostering an Entrepreneurial Spirit in Arts, Audio/Visual Technology and Communications (Repeated in G6)
●	●	●	●	●	●	●	●	I5	Models of Innovation: Microsoft Partners in Learning Sites Find Success Using Career Clusters
●	●	●	●	●	●	●	●	I6	 Barriers and Challenges to Developing Model Programs of Study
●	●	●	●	●	●	●	●	I7	Sharing National Trends and Views from the Hill (Repeated in D3)

Registration

Hotel Registration Desk

7 a.m. – 5 p.m.

Opening Session

Welcome/Spotlight Speaker

Evergreen Ballroom

1 p.m. – 2:30 p.m.



Spotlight Speaker:

Mr. Don Henderson

Senior Manager,
Creative Expressions,
Apple, Inc.

Mr. Henderson is the Senior Manager, Creative Expressions for Apple Education. In his role, Mr. Henderson is responsible for creating programs and solutions that integrate Apple's solutions across the curriculum in both K12 and HiED. In this role, Mr. Henderson has presented keynotes and led workshops around the world, that focus on Creativity & Learning. Mr. Henderson also works with educators and education leaders, who are interested in creating programs focused on integrating media arts and communication technologies into their learning environments.

Mr. Henderson currently serves on education advisory boards for Full Sail University and NOCCA. He is currently the Chair of the Board of Directors for the New Media Consortium, a nonprofit education organization focused on the impact of New Media and Technology for learning.

As an artist, Mr. Henderson sees instruction as a very visual and hands-on experience. Using media as a tool for communication, he applies a simple strategy to both instruction and staff development: Create an engaging environment where the learner must take responsibility for their own learning. By integrating a production

process across the curriculum, students become better communicators and therefore better learners. By providing the students with the inspiration, an innovative learning environment, a plan and the most flexible and creative tools, Mr. Henderson has created empowering programs that help all learners explore new ways to communicate and learn with technology.

Presentation:

Mr. Henderson will speak to the audience about designing learning environments which allow for creativity and innovation by exploring what learning looks like today through the eyes of students.

At Apple, Mr. Henderson is involved with a special project called Challenge Based Learning (challengebasedlearning.org) that presents students with a challenge, for which they are expected to find a solution. Challenge based learning is a framework which requires a multidisciplinary approach in order for students and teachers to collaborate in order to solve their challenge. Prior to joining Apple, Mr. Henderson was a high school teacher, CTE teacher and Director of Instructional and Library Technology for the Grossmont Union High School District in California.

Note: In accordance with the policy of Apple, Inc., photographs, video recording or blog postings of this session are expressly prohibited, and no members of the media are allowed to attend.



Session A: Concurrent Breakouts

2:45 p.m. – 3:45 p.m.

A1 EVERGREEN F

Separated by a Common Language: What Workforce Information Can (and Can't) Tell You About Career Clusters

New Mexico's recent experience during the development of the state's Electronic Student Management System has highlighted the need for a common language to support a unified approach to successful student outcomes. The framework of Career Clusters and career pathways offers an opportunity for multiagency collaboration to create a standard vocabulary for workforce developers, educators and industry. A discussion of selected occupations in the Health Science Cluster will serve as an illustrative example of the use of the language of workforce information.

Mr. Herb Greenwall • Acting Bureau Chief, Economic Research and Analysis Bureau, Workforce Solutions Department – New Mexico

Mrs. Suzan Reagan • Economist, Economic Research and Analysis Bureau, Workforce Solutions Department – New Mexico

Ms. Louise Williams • Education Administrator, Public Education Department/Career Technical Workforce Education Bureau – New Mexico

A2 EVERGREEN E

Entrepreneurship Integrated into Every Career Cluster

Participants will be able to examine the most typical occupations in each Career Cluster that are entrepreneurial. Focusing on the current workforce data and economic forecasts will allow participants to see that 89 percent of the current businesses in the nation have five or fewer employees. Participants will reflect on what and how we teach if we are to prepare students effectively for the careers they will enter.

Mr. Gregg Christensen • Entrepreneurship and Career Education Specialist, Nebraska Department of Education – Nebraska

Ms. Carol Ringenberg • Career Field Specialist, Nebraska Department of Education – Nebraska

A3 LONGS PEAK

Pipeline, Clusters, Programs of Study, Oh My!

This session will focus on some successful strategies for implementing the Kansas Career Pipeline, Career Clusters, and Personal Plans of Study. Participants will gain skills in assisting students and their families in developing a Personal Plan of Study as a transitional tool.

Mrs. Joni Clark-Leiker • Career Counselor, Colby Public Schools – Kansas

Mrs. Diana Wieland • Curriculum Director, Colby Public School – Kansas

A4 MAROON PEAK

A Historical Perspective to Career Clusters

This presenter has lived and worked through two different periods during which the Career Clusters concept was developed and promoted. The first was during the mid- to late-1970s when the U.S. Commissioner of Education, Dr. Sydney P. Marland, Jr., promoted the concept of Career Clusters. The second was from the mid-1990s forward, during which time he was directly involved in the development and implementation of the Career Clusters and Pathways as well as the National Skills Standards Initiative. He will share what worked and what didn't, so that we don't make the same mistakes twice.

Dr. Ronald McCage • President, Career and Technical Education Consortium of States, Inc. (CTECS) – Georgia

A5 BLANCA PEAK**Creative Ways to Implement Career Cluster Knowledge and Skills: Be a Part of the Future!**

Get on board and be the first to learn about new lesson plans that can be integrated into multiple subject areas! We are looking for innovative, flexible teachers from CTE, mathematics, science, fine arts, social studies, language arts, special education and other subject matters to learn about and possibly field test new classroom materials in fall 2010. The lessons, which focus on transportation careers and academic content, are targeted for sixth-through 12th-grade students. Field test teachers will receive \$25 for each lesson tested. Come to this session and find out how you can be a part of this exciting initiative and have access to new materials that were developed by teachers working in consultation with industry partners in Virginia, New York, Texas, Oklahoma, Missouri and Nebraska.

Dr. Frances Beauman • Project Director, Two Rivers Professional Development Center – Illinois

Mrs. Sandy Dunkel • Assistant Project Director, Two Rivers Professional Development Center – Illinois

A6 HUMBOLDT PEAK**Integrating Your Career Cluster Curriculum with the Reality of the Workplace**

A Career Cluster program of study must integrate the classroom curriculum with the demands of the workplace. This presentation will provide help in coordinating course curriculum, applied learning experiences and postsecondary requirements for students to continue their preparation for entry into the workforce. This session will give practical advice for establishing an effective Career Cluster academy.

Mr. Michael Connolly • Coordinator of Applied Learning, Pawtucket, RI School Department – Massachusetts

A7 LARKSPUR**The Green-Focused Programs of Study Technical Assistance Academy**

This session will provide an overview of the National Research Center for Career and Technical Education (NRCCTE) sponsored Technical Assistance Academy to support states in developing green-focused Programs of Study (POS). The Academy process will be described as a strategy for building replicable implementation model(s) to bring POS to scale. In addition, this session will explore the implications of the emerging green labor market for the delivery of career and technical education and the larger role that POS play in the NRCCTE research agenda.

Mr. Ivan Charner • Vice President, Academy for Educational Development – District of Columbia

Dr. James Stone III • Director, NRCCTE – Kentucky

A8 EVERGREEN D**A Conversation with Don Henderson, Spotlight Speaker, Creative Expressions, Apple, Inc.**

This session will be an open forum conversation with Mr. Don Henderson as a follow up to the general session. In addition, attendees will be given opportunity to learn about Apple's career and technical certification programs

Mr. Don Henderson • Senior Manager, Creative Expressions, Apple, Inc. – Texas

A9 PIKES PEAK**ABCs of Career Clusters**

New to Career Clusters? Come to this introductory session to learn the basics of the Career Clusters model, components and implementation strategies. This session is designed for first-time participants and those becoming familiar with Career Clusters.

Mr. Seth Derner • Consultant, States' Career Clusters Initiative – Nebraska

Mr. Douglas Kueker • Consultant, States' Career Clusters Initiative – Nebraska



Session B: Concurrent Breakouts

4:05 p.m. – 5:05 p.m.

B1 BLANCA PEAK

Focus on Clusters

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following clusters:

- Architecture & Construction
- Manufacturing
- Transportation, Distribution & Logistics

Dr. Frances Beaman • Project Director, Two Rivers Professional Development Center – Illinois

Ms. Deanna Lewis • Director Career and Certification Services, Home Builders Institute – District of Columbia

B2 HUMBOLDT PEAK

Making That Career Cluster Fit: Matching College Programs with Multiple Independent School Districts

Discover how El Paso Community College has partnered with several independent school districts to match Career Clusters with their programs of study. Find out what we did then share your experiences in transitioning courses from secondary to postsecondary.

Ms. Aggie Becker • Achieve Texas Facilitator, El Paso Community College – Texas

B3 EVERGREEN E

Committed Partners + Shared Leadership + Integrated Approach = Successful School Reform for Workforce Development. Updates on a New Pre-Engineering Career Cluster Initiative

Learn about the key features and components of a well-crafted Pre-Engineering Career Cluster model. The session will also cover the “why’s and how’s” of innovative ways to get business-industry active participation and school leadership commitment, to improve curriculum and teaching practices aimed at helping workforce development to meet today’s global challenges.

Dr. Agustin Navarra • Vice President, Center for Occupational Research and Development – Texas

Mrs. Holly Doughty • Research Associate, Center for Occupational Research and Development – Texas

B4 PIKES PEAK

Technical Communications: Rigor and Relevant Writing in Career and Technical Classrooms

Help prepare your students for both work and college through instruction about technical writing. Learn:

1. How technical writing differs from academic writing while meeting state writing standards.
2. How to embed rigorous and relevant communication into your classroom content.
3. How to bring teachers together to create this collaboration. See sample projects and interdisciplinary instruction with writing across the career pathways.

Mrs. Carol Larkin • Instructor, Lake Shore Compact and Mentor Public Schools – Ohio

B5 EVERGREEN D

**Listening Session with Brenda Dann-Messier,
Assistant Secretary for the Office of Vocational and
Adult Education**

Join the speaker for a “listening session” with Dr. Brenda Dann-Messier, recently confirmed Assistant Secretary for the Office of Vocational and Adult Education. Her confirmation by the United States Senate was on October 5, 2009, nominated by President Barack Obama in July 2009. The session will be moderated by Mr. Scott Stump, Dean of Career & Technical Education, Colorado Community College System, Colorado.

Dr. Brenda Dann-Messier • Assistant Secretary for Vocational and Adult Education, Department of Education – District of Columbia

B6 LONGS PEAK

**The Future of Learning: CTE Students in Business,
Management and Administration and Architecture
and Construction Clusters Engaged Through Project-
Based Learning in the Business Community**

The Future of Learning program was a Rockwall ISD cross-curricular collaboration among three CTE teachers involving nine secondary classrooms and multiple Career Clusters within the district feeder pattern designed to create a relevant, collaborative, engaging, project-based learning environment. Facilitators present results and strategies for a successful, engaging PBL lesson plan.

Mrs. Jean Laswell • CTE Teacher, Rockwall Independent School District – Texas

Ms. Tracey Black • CTE Teacher, Rockwall Independent School District – Texas

Mrs. Kim Card • CTE Department Head, Rockwall Independent School District – Texas

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B7 LARKSPUR

Developing State Models for Green-Focused Programs of Study



State team leaders will review the process they went through to create green-focused Programs of Study (POS). This will include a description of their proposal development for Academy participation, team member selection, identification of green industry area of focus, preparation for the kick-off and subsequent team planning meetings and strategic planning efforts. State representatives will provide examples of agendas, PowerPoint presentations and action plans detailing their 14-month process, as well as materials they have created to date to support POS implementation in the field.

REPRESENTING GEORGIA:

Ms. Sue Chandler • Director of Institutional Planning, Evaluation and Effectiveness, DeKalb Technical College – Georgia

Mrs. Debra Howell • Workforce Development Manager Georgia Power – Georgia

Dr. Angela Pringle • Principal, Arabia Mountain High School, DeKalb County School System – Georgia

Mr. John Pritchett • Middle School Curriculum Coordinator, Georgia Department of Education – Georgia

Ms. Robin White • Senior Program and Policy Director, AED National Institute for Work and Learning – District of Columbia

B8 EVERGREEN F

Building a Technical Skill Inventory Database One State at a Time

Developing a national technical skills inventory database is necessary if states are to comply with the most critical Perkins accountability requirement. The National Research Center for Career and Technical Education (NRCCTE) searchable database of technical skills assessment information can provide consistency from state to state when reporting about technical skill proficiency in secondary and postsecondary career technical education programs.

Ms. Dana Kelly • NRCCTE – Kentucky

Dr. Pradeep Kotamraju • Deputy Director, NRCCTE – Kentucky

B9 MAROON PEAK



Army National Guard: Your Partner in Career Education

Military Career Pathways and Partnerships with Army National Guard for Career Guidance.

The Carl D. Perkins Career and Technical Education Act calls on schools and states to provide clear postsecondary career pathways for all students. This presentation will provide participants with opportunities to connect with the Army National Guard's Partners in Education program, which provides essential free educational resources to assist schools in meeting the requirements of Perkins, develop career pathways and support career and academic development of all students. The presenter will discuss lesson plans that provide job search skills, career mentoring and diverse civilian occupations held by members of the Guard. A discussion on how schools are integrating these resources into their career curriculum will be included in this presentation.

Mr. Scott Farrell • National Director of Education Outreach, Army National Guard – Connecticut

Institute Reception

Atrium Foyer

5:10 p.m. – 6:15 p.m.

All Institute participants are invited!
Please join us for hors d'oeuvres and a cash bar.

IMPORTANT NOTE:

In order to be admitted into the ballroom for the reception, you must display your Institute name badge.

Institute Breakfast

Atrium Foyer
7 a.m. – 8 a.m.

Registration

Hotel Registration Desk
7 a.m. – 4 p.m.

General Session

Evergreen Ballroom
8 a.m. – 9 a.m.



Guest Speaker:

Ms. Kelly Green
Academic Program Manager
U.S. Innovation and
Business Development
Microsoft Corporation
Redmond, Washington

Career Ready @ Microsoft

The success of large corporations is linked to the success of students preparing for college and careers. What can educators and students do today to prepare our future workforce? What skills are companies looking for and how do Career Clusters align to those skills? This presentation will take a closer look at what core competencies large companies look for in their hiring processes.

Kelly Green is an Academic Program Manager for Microsoft's Partner's in Learning (PiL) initiative. She is responsible for the development of the Innovative Schools Breadth program and has worked extensively in Washington and New Mexico on several education projects including with New Mexico's Rural Revitalization program. Ms. Green has 20 years of experience in the field of education. Prior to joining Microsoft in March 2006, she was Chief Operating Officer and Director for Policy and State Partnerships for the National

Commission on Teaching and America's Future, a nonprofit organization focused on ensuring high-quality teaching in schools organized for success. She worked as Director, Government Relations/Strategic Partnerships for Classwell Learning Group of Boston, Massachusetts. Ms. Green worked at the U.S. Department of Education for three years in several policy positions providing strategic advice and counsel on major policy and outreach matters including senior advisor to the Deputy Secretary of Education, where she was responsible for policy issues including Title I, research and evaluation, vocational and adult education and education technology.

Prior to joining the U.S. Department of Education, Ms. Green spent four years teaching at the elementary level in Lexington, Kentucky. She holds a bachelor's degree from the University of Kentucky and a master's degree from the Harvard Graduate School of Education.

Session C: Concurrent Breakouts

9:20 a.m. – 10:20 a.m.

C1 EVERGREEN D

Career and Technical Programs of Study: A Design Framework

The Carl D. Perkins Career and Technical Education Act of 2006 (Perkins IV) calls for states to offer "career and technical programs of study." To help states and local recipients meet these requirements and ensure some consistency across the country, the Office of Vocational and Adult Education (OVAE), in collaboration with major national associations, organizations and states, have formulated a "career and technical programs of study design framework." During this session these components will be discussed allowing participants an opportunity to compare and contrast their programs of study with this suggested national model.

Dr. Scott Hess • Chief, College & Career Transitions, OVAE,
Department of Education – District of Columbia

Ms. Sharon Miller • Director, Division of Academic and Technical
Education, OVAE, Department of Education – District of Columbia



C2 LONGS PEAK

Getting it Right: Performance-Based Curriculum Integration in Career Academies and Pathway Programs

A fundamental instructional strategy in career academies and career-themed pathways is integrating curriculum where students apply multiple content areas to challenging industry-based problems. Join us to do performance mapping – a technique to make cross-curricular connections, build authentic projects and address standards in multiple courses while maintaining required scope and sequence.

Dr. Paula Hudis • Director, ConnectEd – California
(Session is REPEATED in D2)

C3 EVERGREEN F

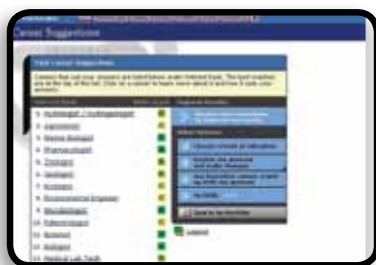
Pathways to Success: A Tech Prep Model for Pre-Engineering

In response to state and local demands for a skilled workforce in the career fields of aerospace, manufacturing and engineering, Las Cruces Public Schools in collaboration with its postsecondary partners, Doña Ana Community College and New Mexico State University, developed a model 2 + 2 + 2 Tech Prep program of study. Through implementation of Project Lead The Way pre-engineering program, this STEM pathway called Aerospace Technology provides students with multiple-skilled exit points ensuring college and career readiness.

Mrs. Jennifer Amis • Director of Secondary Instruction, Las Cruces Public Schools – New Mexico

Mrs. Marcia Knight • Tech Prep and Career Cluster Specialists, New Mexico Public Education Department – New Mexico

Mr. Jerry Welch • Dean of Technical Studies, Doña Ana Community College – New Mexico



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Web: www.careercruising.com

C4 PIKES PEAK**Creating Pathways to Success: High School Redesign Meets the 21st Century!**

Lakeland School Corporation's Career Pathways initiative links with New Tech Network to redesign Lakeland High School to prepare ALL students for career and life success. Career advisories, community partnerships and internships combine with project-based learning to provide the 21st century skills students need to soar to success.

Mrs. Crystal Leu • Director of Curriculum, Lakeland School Corporation – Indiana

C5 EVERGREEN E**Alabama SUCCESS Initiative: Supporting the Career Cluster Education Student System**

Alabama continues preparing its students for workforce challenges by presenting the new 16 Career Cluster guidebooks, the Student Guide in Spanish and the Alabama SUCCESS Poster and DVD. Distribution and professional development for the cluster books will be presented, and samples of the material will be provided. Come share our SUCCESS!

Dr. Mary Simon • State Tech Prep Coordinator, Alabama Department of Education – Alabama

Dr. Philip Cleveland • Dean, Career and Technical Education and Workforce Development, Wallace State Community College – Alabama

C6 HUMBOLDT PEAK**Dynamic and Proven Economic Collaboration Models for Communities and Educators to Create Film and Digital Media Programs**

Did you know New Mexico boasts the third largest film and digital media economy in the United States? Learn how the state developed a dynamic and resilient industry during tough economic times through the collaborative efforts of state agencies, higher and secondary educational institutions and industry professionals.

Mr. Mateo Pumphrey • Director Film Technician Training Program, Northern New Mexico College – New Mexico

Mr. Gilbert Sena • Chair Career and Technical Education, Northern New Mexico College – New Mexico

Mr. Mark Sowards • Visiting Professor of Film and Digital Media, Northern New Mexico College – New Mexico

C7 MAROON PEAK**The Get-Into-Energy Career Pathways Initiative**

The Center for Energy Workforce Development is bringing together industry, education and workforce to create career pathways in the energy industry. The pathways are based on an integrated model of energy industry competencies and the Career Cluster Knowledge and Skills set aligned with stackable credentials. The pathways system also includes career coaching and employer support elements that demonstrate collaboration at its best. Find out about this innovative initiative, including what's in store for the pilot program and a national rollout.

Ms. Valerie Taylor • Educational Consultant, Center for Energy Workforce Development – Virginia



C8 CONIFER BALLROOM

Developing State Models for Green-Focused Programs of Study



State team leaders will review the process they went through to create green-focused Programs of Study (POS). This will include a description of their proposal development for Academy participation, team member selection, identification of green industry area of focus, preparation for the kick-off and subsequent team planning meetings and strategic planning efforts. State representatives will provide examples of agendas, PowerPoint presentations and action plans detailing their 14-month process, as well as materials they have created to date to support POS implementation in the field.

REPRESENTING THE STATE OF ILLINOIS:

Mr. Ivan Charner • Vice President, Academy for Educational Development – District of Columbia

Mr. Brian Durham • Senior Director for Academic Affairs and CTE, Illinois Community College Board – Illinois

Mr. Steve Parrott • Principal Consultant, Illinois State Board of Education – Illinois

Ms. Krisann Rehbein • Manager of Community Partnerships, Chicago Architecture Foundation – Illinois

C9 BLANCA PEAK

Focus on Clusters

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following Career Clusters:

- Human Services
- Hospitality & Tourism

Ms. Melba Kennedy • Program Coordinator for Secondary to Postsecondary Transitions, Louisiana Community & Technical College System – Louisiana

Ms. Barbara Orwig • Career Communications, Inc. – Kansas

Institute Break

10:20 a.m. – 10:40 a.m.

Session D: Concurrent Breakouts

10:40 a.m. – 11:40 a.m.

D1 EVERGREEN E

A Conversation with Kelly Green

Come and join guest speaker Ms. Kelly Green of Microsoft Corporation in a casual follow-up session during which there will be time for a participant question and answer session on her work with the schools highlighted in the College and Careers Readiness Program. Get first-hand advice about this successful endeavor and your specific questions addressed.

Ms. Kelly Green • Academic Program Manager, Microsoft Corporation – Washington

D2 LONGS PEAK

Getting it Right: Performance-Based Curriculum Integration in Career Academies and Pathway Programs

(Session is REPEATED in C2)

D3 EVERGREEN D**Sharing National Trends and Views From the Hill**

Career Technical Education is undergoing so many changes. What are the top issues, opportunities and challenges that face the profession? This session will serve as a thought starter to identify the trends that impact what we do – things you and your program/school/state might want to take into consideration as you move forward with advancing Career Clusters. This session will also provide a brief legislative update on the federal legislation impacting CTE and Career Clusters, Perkins implementation and what politicians are saying (or not saying) about education and workforce issues.

NASDCTEc/NCTEF Staff • NASDCTEc/NCTEF – Maryland

(Session is REPEATED in I7)

D4 EVERGREEN F**College and Career Transitions Coordinators Lead the Way for Career Clusters in Louisiana**

College and Career Transitions Coordinators within eight geographic Louisiana Community and Technical College regions are leading the development and implementation process for Career Clusters/career pathways/programs of study in Louisiana. Learn how the coordinators are accomplishing this mission throughout the state through career pathway teams.

Mrs. Melba Kennedy • State Coordinator for Secondary to Postsecondary Transitions, Louisiana Community & Technical College System – Louisiana

Mrs. Betty Delafosse • College and Career Transitions Coordinator, Region 4 Northwest – Louisiana

Mrs. Cheryl Probst • College and Career Transitions Coordinator, Region 6 East – Louisiana

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D5 PIKES PEAK

Introduction to the National Career Clusters Knowledge and Skill Statements

The Career Clusters Knowledge and Skill Statements can be used to guide and support curriculum revision efforts. The statements are maintained by national advisory committees and were revised in 2008. At this presentation, you will take away ideas for use in your programs.

Mr. Seth Derner • Consultant, States' Career Clusters Initiative – Nebraska

Mr. Douglas Kueker • Consultant, States' Career Clusters Initiative – Missouri

D6 HUMBOLDT PEAK

Florida's Statewide Biotechnology Program of Study

Learn how Florida is developing a statewide Biotechnology Program of Study and Articulation Agreement program. Through innovative partnerships in the biotechnology arena, Florida brought together major players in the field to create new curricula and career pathways in industrial biotechnology from the high schools to the community colleges to the workforce.

Ms. Tamara Mandell • Assistant Director, Education and Training, University of Florida, Center of Excellence for Regenerative Health Biotechnology – Florida

Dr. Richard O. Snyder • Director of Biotherapeutic Programs, Office of Research, University of Florida, Department of Molecular Genetics and Microbiology – Florida

D7 BLANCA PEAK

Focus on Career Clusters

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following clusters:

- Business Management & Administration
- Marketing
- Finance

Mr. Gregg Christensen • Entrepreneurship and Career Education Specialist, Nebraska Department of Education – Nebraska

Ms. Debra Mills • Vice President, Partnerships, Center for Occupational Research and Development – Texas

D8 CONIFER BALLROOM

Developing State Models for Green-Focused Programs of Study



State team leaders will review the process they went through to create green-focused POS. This will include a description of their proposal development for Academy participation, team member selection, identification of green industry area of focus, preparation for the kick-off and subsequent team planning meetings and strategic planning efforts. State representatives will provide examples of agendas, PowerPoint presentations and action plans detailing their 14-month process, as well as materials they have created to date to support POS implementation in the field.

REPRESENTING THE STATE OF OHIO:

Mr. Bill Dodds • Principal, Highland High School – Ohio

Dr. Jerrold L. Hutton • Dean, Hocking College Energy Institute – Ohio

Dr. Isaac Kershaw • State FFA Advisor, Ohio Department of Education – Ohio

Mr. Jim Schoelkopf • Senior Research Associate, MPR Associates – Oregon

D9 MAROON PEAK**VENDOR Career Cruising:
A Complete Guidance Experience**

Career Cruising's complete guidance system integrates Career Clusters and programs of study to help students make informed decisions and detailed plans that meet their postsecondary education and career goals. Join us to learn how your students can use:

- Our world class assessments to identify clusters of interest.
- Our comprehensive career profiles to explore careers within those clusters.
- Our engaging portfolio development system to build education plans based on Programs of Study.

Our add-on Course Planner module can take your students' planning to the next level, allowing them to build complete, validated course schedules that focus on their cluster interests and meet graduation requirements. Course Planner integrates with your school's SIS to automate the course selection process and simplify career technical education and Career Clusters tracking. All participants not currently licensed will receive free trial access to Career Cruising that they can use with their school at the start of the next school year.

Mr. Kyle Phillips • Director of Sales, Career Cruising – Ohio

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Institute Luncheon

Rocky Mountain Event Center

11:45 a.m. – 12:45 p.m.

Open to ALL Institute participants.

REMEMBER: Your name badge is your ticket.

Session E: Concurrent Breakouts

1 p.m. – 2 p.m.

E1 EVERGREEN E

The STEM Equity Pipeline: Engineering and Technology, Science and Mathematics

Funded by a National Science Foundation Grant, National Alliance for Partnerships in Equity Education Foundation is collaborating with state professional development providers to integrate research-based gender equity strategies into existing professional development programs.

Ms. Mimi Lufkin • Assistant Director, National Alliance for Partnerships in Equity – Pennsylvania

E2 EVERGREEN D

Health Information Technology (HIT): New Career Opportunities for Health Science and IT Students

The president's goal of creating a paperless healthcare system via electronic health records will provide thousands of well-paying new high-tech jobs. Preparation for these new career opportunities will require close collaboration between the secondary and postsecondary Health Science and Information Technology clusters. OVAE has partnered with the Department of Health and Human Services to ensure that these new HIT programs align with the intent of the Carl D. Perkins Career and Technical Education Act legislation requiring "career and technical programs of study." Seventy community colleges have been funded to create model HIT programs. During this session, the new HIT knowledge and skill requirements will be shared and information about the 70 funded community colleges will be provided.

Ms. Nancy Brooks • Information Technology Career Cluster Liaison, OVAE, Department of Education – District of Columbia

Dr. Scott Hess • Chief, College & Career Transitions, OVAE, Department of Education – District of Columbia

Ms. Chitra Mohla • Health Information Technology Project Director, Health and Human Services – District of Columbia

E3 HUMBOLDT PEAK

Building Partnerships with Business and Industry to Advance America's Workforce

A presentation of ideas, strategies and case studies of relationship management and partnership development that have provided significant involvement, engagement and financial support between CTE and business and industry. Pick up ideas that can be implemented at local, state and national level around building support and securing resources for your program.

Mr. Kent Schescke • National FFA, Washington – District of Columbia

E4 LONGS PEAK**Innovative Strategies Steering Career and Technical Education Programs into Career Academies**

The presentation will describe how the School District of Palm Beach County has become a leader in high school reform by redesigning their career technical education programs into career academies. This presentation will describe how to strategically plan and provide professional development to become an exemplary career academy district and statistical data. This transformation has been accomplished through the cooperation and dedication of the business community, parents, and as the district.

Mrs. Constance Scotchel-Gross • Manager, Career Education, School District of Palm Beach – Florida

E5 PIKES PEAK**Tools to Assist in Local Career Clusters Implementation**

Use this session to check out the tools available from Career Clusters. Guides, manuals, brochures, and other tools will be available to try out. Walk away with ideas for using the tools at your site.

Mr. Seth Derner • Consultant, States' Career Clusters Initiative – Nebraska

Mr. Douglas Kueker • Consultant, States' Career Clusters Initiative – Missouri

E6 EVERGREEN F**A.I.M. For College Success**

Analytical Integrated Mathematics (AIM) is a CTE course where students solve and model robotic design problems. Students use mathematical methods to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control and robotics with computer programming. AIM is focused on preparing high school seniors to be college ready in math. AIM has been approved as engineering math and will serve as a fourth year of math option.

Mrs. Donna McKethan • Director of Career & Technical Education & Counseling, Waco ISD – Texas

E7 BLANCA PEAK**Focus on Clusters**

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following clusters:

- Law, Public Safety, Corrections & Security
- Government & Public Administration

Mr. John Davidson • Deputy Director of Career and Technical Education, National Career Academy Coalition – Arkansas

Mr. Joseph Coffee • Executive Director, National Partnership for Careers in Law, Public Safety, Corrections and Security – Virginia



E8 CONIFER BALLROOM

Developing State Models for Green-Focused Programs of Study



State team leaders will review the process they went through to create green-focused programs of study. This will include a description of their proposal development for Academy participation, team member selection, identification of green industry area of focus, preparation for the kick-off and subsequent team planning meetings and strategic planning efforts. State representatives will provide examples of agendas, PowerPoint presentations and action plans detailing their 14-month process, as well as materials they have created to date to support POS implementation in the field.

REPRESENTING THE STATE OF OREGON:

- Ms. Katherine Boswell** • Director-Community College Policy Center, AED Center for Education Policy and Practice – Utah
- Mr. Todd Sanders** • Instructor – Mechanical Engineering, Portland Community College – Oregon
- Ms. Marybeth Stiner** • CTE Regional Coordinator, Portland Public Schools – Oregon
- Mr. Tom Thompson** • Education Specialist, Oregon Department of Education – Oregon



E9 MAROON PEAK

"Know, See, Do, Prove" – An Instructional Methodology Delivered via CDX Systems Which Delivers Results that Textbooks Cannot

The 2005-2006 Lexile Framework for Reading Study, Summary of High School Text Lexile Measures, shows that many career technical education high school textbooks are written at the same level as the typical college textbook, which can contribute to poor student performance and ineffective use of school resources. The session will provide an overview and discussion of the CDX "Know, See, Do, Prove" instructional model, crafted for today's "digital native" students. CDX has proven to measurably improve student performance while increasing a schools return on investment by effective use of multimedia and learning technologies.

Mr. Ian Andrew • Director of Training, Jones & Bartlett Learning – Massachusetts

Institute Break

2 p.m. – 2:20 p.m.
Refreshments Served

Session F: Concurrent Breakouts

2:20 p.m. – 3:20 p.m.

F1 EVERGREEN D

Using Statewide Articulation Agreements as the Vehicle to Drive Rigorous Programs of Study

In the fall of 2008, the the Office of Vocational and Adult Education (OVAE) selected six states through an application process to establish rigorous programs of study (RPOS) through the creation of statewide articulation agreements. During this panel discussion, representatives from OVAE's RPOS project will share their successes as well as the challenges they faced during this project, which is slated to end later this year.

PANEL MODERATOR:

Dr. Scott Hess, Chief • College & Career Transitions, OVAE, Department of Education – District of Columbia

PANELISTS:

- Ms. Tamara Mandell** • Project Director – Florida
- Ms. Barbara White** • Project Director – Hawaii
- Mr. Gregg Christensen** • Project Director – Nebraska
- Ms. Kathy Totten** • Project Director – New Hampshire
- Dr. Bob Couch** • Project Director – South Carolina

F2 LONGS PEAK**A New Vision for Career Clusters and Career Technical Education**

Education leaders in the Career Technical Education (CTE) community recently have adopted a new vision that places Career Clusters and programs of study at the center of their agenda to prepare all students to succeed in college and their careers.

Scott Stump • Dean of Career Technical Education, Colorado Community College System – Colorado

Kimberly Green • Executive Director, NASDCTEc – Maryland

(Session is REPEATED in H4)

F3 EVERGREEN F**A Community Partnership – A Collaboration that Works!**

Pearland ISD and the Northern Brazoria Educational Alliance have joined together to provide steps in giving our community a well-trained workforce through rigorous and updated career technical education courses, tech prep agreements, workforce dual credit, student certifications and scholarships. Presentation will include an overview video of this partnership, which formed just a little over two years ago.

Mrs. Barbara Derrick • Director of Career and Technical Education, Pearland Independent School District – Texas

Mrs. Terrie Morgan • Director of NBCEA, Northern Brazoria County Education Alliance – Texas

F4 MAROON PEAK**North Carolina Career Clusters Guide**

The North Carolina Department of Public Instruction and the North Carolina Community College System collaboratively developed a Career Clusters resource for counselors to implement Career Clusters. Using the North Carolina Career Clusters Guide, counselors are able to assist students identify career options, educational goals and make plans for success.

Ms. Felicia Gray-Watson • Section Chief, CTE Support Services, North Carolina Department of Public Instruction – North Carolina

Mr. Douglas Long • Coordinator, Federal Vocational Education, North Carolina Community College System – North Carolina

F5 PIKES PEAK**Aligning Program of Study Outcomes, Curriculum, and Assessments Using Webb's Alignment Tool**

This interactive session will use research-based models to help you put your arms around two very intangible topics – rigor and alignment. This will allow you to make informed decisions as you select, design and revise your programs of study, technical assessments and content standards.

Mr. Douglas Kueker • Consultant, States' Career Clusters Initiative – Missouri



F6 EVERGREEN E

Increasing Student Success

While aligning with programs of study, DECA helps students identify career paths in the Business Management and Administration, Finance, Hospitality and Tourism and Marketing Clusters. Learn how to improve understanding of career pathways, enhance teaching and learning and prepare learners for technical skills assessment through DECA.

Dr. Michelle Walker • Director of Education, DECA Inc. – Virginia
Mr. Shane Thomas • Director of Competitive Events, DECA Inc. – Virginia

F7 BLANCA PEAK

Focus on Clusters

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following clusters:

- Information Technology
- Science, Technology, Engineering & Mathematics
- Arts, A/V Technology & Communications

Ms. Gretchen Koch • Director, Public Sector Business Development, CompTIA – Illinois

Dr. Ronald D. McCage • President, CTECS – Georgia

F8 CONIFER BALLROOM

Developing State Models for Green-Focused Programs of Study



State team leaders will review the process they went through to create green-focused Programs of Study (POS). This will include a description of their proposal development for Academy participation, team member selection, identification of green industry area of focus, preparation for the kick-off and subsequent team planning meetings and strategic planning efforts. State representatives will provide examples of agendas, PowerPoint presentations and action plans detailing their 14-month process, as well as materials they have created to date to support POS implementation in the field.

REPRESENTING THE STATE OF NEW JERSEY:

Dr. Steve Klein • Director, Preparation for College and Careers, MPR Associates, Inc. – Oregon

Ms. Marie Barry • Director, Office of Career and Technical Education, Department of Education – New Jersey

Dr. Brian McAndrew • Consultant, Council of County Vocational-Technical Schools – New Jersey

Mr. John Steiner • Curriculum Specialist: Allied Health and Sciences, Salem Community College – New Jersey

F9 HUMBOLDT PEAK

What do you Need to Implement Rigorous Programs of Study?

Programs of Study (POS) readiness and rigor are becoming important issues for your institution. The National Career and Technical Education Foundation and the Center for Occupational Research and Development are developing a series of professional development workshops to assist school and campus leaders in implementing POS. Attend this workshop to hear about the initial plans for these workshops and provide your feedback about what's needed in the field.

Ms. Debra Mills • Vice President, Partnerships, CORD – Texas

Mr. Seth Derner • Consultant, States' Career Clusters Initiative – Nebraska

Session G: Concurrent Breakouts

3:40 p.m. – 4:40 p.m.

G1 LONGS PEAK

The Digital Media Council: Connecting Industry and Education to Benefit the Workforce Pipeline

In 2005, Skillpoint Alliance created the Digital Media Council (DMC) to support the workforce pipeline for the rapidly-emerging digital media industries of Central Texas. Learn how DMC industry, education and community leaders collaborate to support education and training for this growing economic sector.

Mr. Rodney Gibbs • Chairman/President, Skillpoint Alliance Digital Media Council, Ricochet Labs – Texas

Ms. Jessica Maguire • DMC Director, Skillpoint Alliance Digital Media Council, Ricochet Labs – Texas

G2 EVERGREEN E

Open Forum on Programs of Study

As an outgrowth of the green focused Programs of Study (POS) effort, the NRCCTE is convening a forum for interested states and locals engaged in POS design to share development strategies and lessons learned. Topics that will be addressed include incorporating the new OVAE design framework into the planning process, undertaking curriculum design and course alignment and sequencing, offering professional development and counseling activities, establishing secondary-postsecondary linkages through the use of dual credit and concurrent enrollment and making use of accountability and evaluation systems. The forum will offer an opportunity for states and local agencies to relate experiences, share useful approaches and activities and learn from those who are relatively experienced in POS design, as well as those in the early stages of POS creation.

Mr. Ivan Charner • Vice President, Academy for Educational Development – District of Columbia

Dr. Steve Klein • Director, Preparation for College and Careers, MPR Associates, Inc. – Oregon

G3 CONIFER BALLROOM

Standards Based Curriculum: Professional Development Framework for Implementation at the Secondary Level

Standards are developed through a partnership among business and industry connections and teachers from the field. Learn from the teachers how they implemented the standards after completing a professional development workshop. The Standards Implementation Workshop is a hand-on approach with the teachers aligning their current program with the state approved standards.

Ms. Debra Wenzel • Program Specialist, South Dakota Department of Education – South Dakota

Ms. Suzy Ries • FACS teacher, Baltic High School – South Dakota

Ms. Kristi Storms • FACS Teacher, Ethan High School – South Dakota



G4 PIKES PEAK

Using Career Clusters Knowledge and Skill Statements to Design Programs of Study

Recently revised national Career Clusters Knowledge and Skill Statements can be a very useful resource in identifying competencies and curriculum for your programs of study. This session will include suggestions and activities.

Mr. Seth Derner • Consultant, States' Career Clusters Initiative – Nebraska

Mr. Douglas Kueker • Consultant, States' Career Clusters Initiative – Missouri

G5 HUMBOLDT PEAK

Professional Development on Use of Assessment Data to Improve Programs of Study: A National Research Center Project

National Occupational Competency Testing Institute (NOCTI) is conducting a National Research Center project involving secondary career technical education educators in interactive professional development on the use of technical skills assessment data to improve programs of study curriculum and to identify individual and group instructional needs. Mentoring and communities of practice enable the educators to sustain their learning.

Dr. Sandra Pritz • Senior Consultant, NOCTI – Michigan

G6 EVERGREEN D

Microsoft School Highlight Session – Fostering an Entrepreneurial Spirit in Arts, Audio/Visual Technology and Communications

The National Career and Technical Education Foundation (NCTEF) and Microsoft Corporation's U.S. Partners in Learning program have partnered to develop a guide for the series, "College and Career Readiness Program." This session will showcase success story of Mosquero High School, New Mexico, a school that is creating a different kind of learning experience. The goals of the series are to engage and educate students and successfully overcome the challenges of students dropping out and lack of preparation for college and career. The schools actively participating in the program implement meaningful and relevant programs of study for students aligned to Career Clusters and 21st century skills.

Ms. Donna Hazen • Teacher, Mosquero High School – New Mexico

Panel of Students • Mosquero High School – New Mexico

(Session is REPEATED in I4)

G7 BLANCA PEAK**Focus on Career Clusters**

Come join this open forum for sharing of best practices, ideas and networking related to a Career Cluster or grouping of Career Clusters. This will be an opportunity for session attendees to share their experiences related to the specific Career Clusters, share questions they may want or share feedback they would like to provide related to the Career Cluster. This session addresses the following clusters:

- Health Science
- Agriculture, Food & Natural Resources

Mr. Scott Stump • Dean of Career & Technical Education, Colorado Community College System – Colorado

Mr. Michael Womochil • Director, Colorado Community College System – Colorado

G8 EVERGREEN F**Utilizing Career Pathways for Individualized Academic and Career Plans**

The Academic and Career Plan is designed to be a working document that maximizes student achievement by having the student accomplish goals in middle and high school that lead to postsecondary and career readiness. The plan should be student-driven and maintained by school professionals working cooperatively to assist the student in reaching his or her goals in the most logical academic and career path. The Academic and Career Plan should start with the end in mind. Virginia's Academic and Career Plan will be implemented fully starting the 2011-2012 school year. The plan will begin in the seventh-grade year and be updated at a minimum during the ninth and 11th grade.

Ms. Elizabeth Russell • Director, Virginia Department of Education – Virginia

G9 MAROON PEAK**Real-World Chemistry Instruction for a Career Cluster Setting**

Chemistry in the Community (ChemCom) organizes chemistry curriculum around real-world issues. High school students learn chemistry and develop decision-making skills relevant to a wide spectrum of careers including STEM, agriculture and government. We will suggest strategies for implementing ChemCom within a Career Clusters environment.

Ms. Laurie Langdon, Research Associate, University of Colorado – Colorado

The National Research Center for Career and Technical Education**The National Research Center for Career and Technical Education**

is the primary agent for generating scientifically based knowledge, disseminating that knowledge, and providing professional development and technical assistance to states to improve career and technical education in the United States. The NRCCTE works to improve the engagement, achievement, and transition of high school and postsecondary CTE students through technical assistance to states, professional development for CTE practitioners, and dissemination of knowledge derived from Center work and other sources of quality research.

The NRCCTE's research, dissemination, professional development, and technical assistance projects address:

- Programs of Study linking high school to postsecondary CTE
- Integrating rigorous academics into CTE (with a special focus on Math, Science, and Literacy)
- Increasing graduation rates
- Professional development for career-technical educators
- Dual and concurrent enrollment
- Assessment and accountability
- Making high schools matter
- The role of CTE in preparing the green workforce
- The role of CTE in preparing students for high-demand, high-wage, middle- and high-skill occupations

For more on the center and its projects, visit www.nrccte.org or e-mail us at nrccte@louisville.edu. The NRCCTE is funded by the Office of Vocational and Adult Education at the U.S. Department of Education.



Continental Breakfast

Atrium Foyer
7 a.m. – 8 a.m.

Registration

Hotel Registration Desk
7 a.m. – 9 a.m.

Session H: Concurrent Breakouts

8 a.m. – 9 a.m.

H1 BLANCA PEAK

Designing a Health Science Program of Study: Step for Success

This presentation will provide the essential elements needed in a health science program. Emphasis will be put on standards, instructional strategies and measuring student achievement and the most effective use of resources and partnerships.

Ms. Cindy LeCoq • CTE Program Director of Health, ACE, Public Safety and Criminal Justice, Colorado Community College System – Colorado

H2 EVERGREEN F

Scenario-Based Assessments of Core IT Applications Across Career Clusters

The NSF-ATE IT Across Careers project has a dynamic collection of classroom-ready resources and tools for teachers to help students achieve success in developing their Essential Knowledge and Skills for Information Technology, including materials to build, assess and chart students' skill development. Attend this session and learn how you can integrate these materials in your classes and programs of study.

Ms. Linda Scott • Project Manager, IT Across Careers, Education Development Center, Inc. – Massachusetts

Dr. Joyce Malyn-Smith • Director Strategic Initiatives Workforce and Human Development, Education Development Center, Inc. – Massachusetts

H3 EVERGREEN E

Individual Career and Academic Plans: Multiple Years of Exploration Under the Cluster Umbrella

Designing relevance in academic instruction and providing students with age- and experience-appropriate access to employers ensures better postsecondary and workforce readiness. This presentation will focus on proven middle and high school programs of the Adams County Education Consortium that enhance career development of all students and engage area employers.

Ms. Sandra Steiner • Executive Director, Adams County Education Consortium – Colorado

H4 LONGS PEAK

A New Vision for Career Clusters and Career Technical Education

Education leaders in the Career Technical Education (CTE) community recently have adopted a new vision that places Career Clusters and programs of study at the center of their agenda to prepare all students to succeed in college and their careers.

Dr. Melissa Lomax • Bureau Chief, Career Technical and Workforce Education, New Mexico Public Education Department – New Mexico

Dr. Kimberly Green • Executive Director, NASDCTEc – Maryland
(Session is REPEATED in F2)



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Law, Public Safety, Corrections, and Security
Manufacturing
Marketing
Science, Technology, Engineering, and Mathematics
Transportation, Distribution, and Logistics



PATHWAYS TO COLLEGE & CAREER READINESS

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H5 PIKES PEAK

Partnering to Achieve Comprehensive Career Guidance for all Students!

This presentation will highlight career technical education's leadership role in expanding comprehensive career guidance throughout the state of Colorado. From policy to practice, this workshop will show how one state is making comprehensive career guidance available to all students.

Mr. Scott Stump • Dean of Career & Technical Education, Colorado Community College System – Colorado

Ms. Lauren Jones • Career Guidance Specialist and Trainer, Colorado Community College System – Colorado

Ms. Julia Pirnack • Director of Web and Curriculum Development, College in Colorado – Colorado

Ms. Dawn Taylor Owens • Executive Director, College in Colorado – Colorado

H6 CONIFER BALLROOM



Green-Focused Programs of Study: The Postsecondary and Industry Perspective

This session will explore the greening of the economy and the impact on specific industries. The industry representatives will explore how changes in their industries affect the initial preparation and continuing professional development of employees. Representatives also will describe their contributions to development of green-focused programs of study, comment on the role that career technical education can play in the career preparation process and identify how green-focused POS can help to address future employment needs in their states.

Ms. Sue Chandler • Director of Institutional Planning, Evaluation, and Effectiveness, DeKalb Technical College – Georgia

Dr. Jerrold L. Hutton • Dean, Hocking College Energy Institute – Ohio

Dr. Steve Klein • Director, Preparation for College and Careers, MPR Associates, Inc. – Oregon

Ms. Krisann Rehbein • Manager of Community Partnerships, Chicago Architecture Foundation – Illinois

Mr. Todd Sanders • Instructor-Mechanical Engineering, Portland Community College – Oregon

Mr. John Steiner • Curriculum Specialist: Allied Health and Sciences, Salem Community College – New Jersey

H7 HUMBOLDT PEAK

Implementation Of Career Clusters and What's Next?

Tennessee's secondary Career & Technology Education Division has adopted The National Career Clusters model of 16 Career Clusters and has developed programs of study within these clusters. Technological advances and global competition have transformed the nature of work. Tomorrow's jobs will require more knowledge, better skills and more flexible workers than ever before. Career Clusters link what students learn in school with the knowledge and skills they need for success in college and careers. Tennessee has been in the developmental and implementation phase for three years and has more than 3,200 programs of study that transition to postsecondary education. The presentation offers information on the implementation of programs of study and answers the question "What's Next?"

Mr. Will Lewis • Director of Curriculum CTE Division, State Department of Education – Tennessee

Mrs. Sue Tucker • Trade & Industry Consultant CTE, State Department of Education – Tennessee

H8 MAROON PEAK
VENDOR Career Cluster Frameworks – Guiding Systematic Career Exploration

We know students learn at different rates but can be motivated by interactive guidance to achieve similar goals. Updated frameworks for Career Cluster exploration make implementation more user-friendly and developmentally-appropriate. This session will demonstrate how students click through the framework using interactive tools and videos. Attendees will learn how:

1. Career fields, clusters and pathways – presented through innovative career assessment, planning, and exploration tools – can be introduced appropriately by student developmental level as early as the elementary level.
2. Exploration of Career Clusters can begin on a broad basis and narrow as students progress through the career planning process.
3. The new framework guides students by grade level through five stages of career related information: 1) Career Fields, 2) Careers Clusters, 3) Career Pathways, 4) Occupations by Education Level and 5) Programs of Study by Education Level.
4. Schools, districts and other educational institutions across the nation are implementing the new framework to encourage more engagement and interaction in Career Cluster awareness, exploration and alignment.

Mr. Eric Heitz • Kuder, Inc. – Iowa

Session I: Concurrent Breakouts

9:20 a.m. – 10:20 a.m.

I1 PIKES PEAK
What Makes Integration Work? Findings from the NRCCTE Curriculum Integration Studies

Presenters will share recent findings from two new National Research Center for Career and Technical Education (NRCCTE) curriculum integration studies: Authentic Literacy in CTE and Science in CTE. Special emphasis will be placed on the core principles of successful academic-CTE integration and what researchers are continuing to learn about integration that works in real classrooms with real teachers.

Dr. Donna Pearson • Associate Director, NRCCTE – Kentucky

Dr. Travis Park • Assistant Professor, Agricultural Education, Cornell University – New York

I2 MAROON PEAK
How Career Technical Student Organizations (CTSOs) Are Integrating Career Clusters Into Their Programs: A Panel Discussion

CTSOs play an important part in student development and growth. This presentation will provide participants examples of how specific CTOS incorporate Career Clusters into their programs. The panel of CTOS representatives will share ideas, strategies and techniques used in Career Clusters integration.



Mr. Kent Schescke • Director of Strategic Partnerships, National FFA, Washington – District of Columbia

13 LONGS PEAK

Implementing Authentic Assessment with STEM Career Curriculum

The University of North Texas will provide innovative approaches for implementing authentic assessment with Science, Technology, Engineering and Mathematics curriculum for grades nine-12. Practical application for assessing meaningful, real-world projects and activities that prepare students for careers in STEM will be shared. Attendees will leave with access to free resources for their tool box, such as portfolio development, checklists and rubrics.

Mrs. Kathy Belcher • STEM Project Coordinator, University of North Texas – Texas

14 EVERGREEN E

Microsoft School Highlight Session – Fostering an Entrepreneurial Spirit in Arts, Audio/Visual Technology and Communications

(Session is REPEATED in G6)

15 BLANCA PEAK

Models of Innovation: Microsoft Partners in Learning Sites Find Success Using Career Clusters

Looking for examples of re-inventing the school experience using Career Clusters? Come and learn the lesson learned by three schools that were part of Microsoft's Partners in Learning program, and take home implementation guides that can help your team.

Mr. Seth Derner • Consultant, The National Career Cluster Initiative – Nebraska

Mr. Douglas Kueker • Consultant, The National Career Cluster Initiative – Missouri

16 MAROON PEAK

Barriers and Challenges to Developing Model Programs of Study



This panel session will explore the challenges that state team members encountered in their efforts to identify and develop green programs of study and the strategies that they adopted to overcome these obstacles. After a short description of state experiences, the panel will respond to questions posed by the moderator and from the audience.

Ms. Marie Barry • Director, Office of Career and Technical Education, Department of Education – New Jersey

Mr. Ivan Charner • Vice President, Academy for Educational Development – District of Columbia

Mr. Brian Durham • Senior Director for Academic Affairs and CTE, Illinois Community College Board – Illinois

Dr. Isaac Kershaw • State FFA Advisor, Ohio Department of Education – Ohio

Mr. John Pritchett • Middle School Curriculum Coordinator, Georgia Department of Education – Georgia

Mr. Tom Thompson • Education Specialist, Oregon Department of Education – Oregon

17 CONIFER BALLROOM

Sharing National Trends and Views from the Hill

(Session is REPEATED in D3)

Institute Break

10:20 a.m. – 10:40 a.m.

Refreshments Served

Institute Closing Session

Evergreen Ballroom

10:40 a.m. – 12 p.m.



Guest Speaker:

Tim Taylor

President, Colorado Succeeds

Colorado Succeeds! A Panel Discussion On Business Interests In Career Technical Education

Tim Taylor is the founding President of Colorado Succeeds. He brings a unique background of executive, nonprofit and public policy experience to the organization.

Colorado Succeeds is the only business organization in the state focused exclusively on education policy and has been recognized as a key driver of education reform by the U.S. Chamber of Commerce Institute for a Competitive Workforce. Mr. Taylor has represented the business voice for education on the Governor's P-20 Council, The Colorado Department of Education Standards Stakeholder Committee and Assessment Stakeholder Committee.

Mr. Taylor began his career on Capitol Hill as an assistant to Congressman Richard Burr (R-NC) and advanced to serve as the Senior Legislative Assistant to Senator Saxby Chambliss (R-GA). After re-locating to Colorado in 1998, he was an independent political consultant and Director of Public Relations and Government Affairs for the Colorado Health Care Association. He is the founder of Open Fairways, a nonprofit organization dedicated to improving the lives of at-risk and underprivileged children through the game of golf and its core values of honor, etiquette and respect.

Mr. Taylor is a graduate of Randolph-Macon College in Virginia, and studied at the Goethe-Institute in Bonn, Germany. He earned a master's degree in International Affairs from The George Washington University.

Join the closing session for the 8th annual national Career Clusters Institute with a moderated panel discussion on the lessons learned and initiatives put in place to advance CTE.

This panel will showcase two or three of the business partners who have worked on this endeavor. Potential topics/focus areas to be discussed include:

- A view of why it was important for Colorado Succeeds to have a particular focus on CTE and why CTE is an important part of the education system.
- A perspective from the panelists of why their individual businesses thought the Colorado Succeeds CTE focus was an important enough project with which to be involved.
- Letting participants know about the report put together and the visits made to other locations to learn about CTE.
- A potential "green- focused" speaker to address initiatives related to green industries or green education

Panelist for the session include:

Mr. Jandel T. Allen-Davis, MD • Vice President, Government and External Relations, Kaiser Permanente – Colorado

Ms. Elaine Gantz Berman, • Colorado Board of Education, Congressional District 1 – Colorado

Mr. Gary Barbosa • Director HR Systems, Workforce Strategy and Talent Acquisition, Lockheed Martin Space Systems Company – Colorado

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