



*39<sup>th</sup> Annual National Conference*



*Strengthening  
Academic Skills  
Through  
Career and Technical  
Education*

Woodlands Conference Center  
Colonial Williamsburg, VA  
April 28, 29, & 30, 2004



## Welcome!

Welcome to the annual conference for the National Association for Workforce Improvement. We are glad you chose to join us in Colonial Williamsburg for our 39th annual gathering. As you will see, this year's program offers excellent speakers on a variety of topics that address our conference theme, "Strengthening Academic Skills Through Career and Technical Education."

Included in your conference registration is a one-year membership in NAWI. You are encouraged to contribute to the exchange of ideas and share significant developments and trends in workforce education program improvement.

Your membership in NAWI provides opportunities for you to

- share information with program innovators on the cutting edge of workforce education program improvement
- use firsthand information from leaders of exemplary projects
- gain insight into workforce education program innovations
- develop a network of colleagues engaged in workforce education program improvement
- be involved in preparing the national agenda for workforce education program improvement
- participate in conferences featuring national leaders in workforce education program improvements.

Thank you for choosing to be a part of this conference. We hope that you will find your time with us to be informational and enjoyable. We encourage you to become an active, contributing, long-term member of NAWI. Again, welcome to Virginia and to the NAWI Conference!

Peggy Watson  
NAWI President



## NAWI Officers 2003-2004

### President

**Peggy Watson**  
Administrative Coordinator  
Virginia CTE Resource Center  
PHONE: 804/673-3778  
mlwatson@CTEresource.org

### Vice President

**John P. McDonagh**  
Executive Director  
Massachusetts Center for Career and  
Technical Education  
PHONE: 781/863-1863  
jmcdonagh@mccte.org

### Secretary

**Amy McCaskill**  
Education Associate  
South Carolina Department of Education  
PHONE: 803/734-4901  
amccaski@sde.state.sc.us

### Membership Secretary

**Robin Schott**  
Manager, Innovative Initiatives and Services  
Oklahoma Department of Career and  
Technology Education  
PHONE: 405/743-5554  
rscho@okcareertech.org

### Treasurer

**Lester M. Snyder, Jr.**  
Arizona State University  
PHONE: 480/965-2952  
lsnyder@asu.edu

### Past President

**Douglas Webster**  
Industry Skill Standards Coordinator  
Career and Workforce Development  
Vermont Department of Education  
PHONE: 802/828-5145  
dwebster@doe.state.vt.us

### Western Region Representatives

**Barbara White**  
Associate Director  
Office of the State Director for Career and  
Technical Education  
University of Hawaii  
PHONE: 808/956-6089  
whiteb@hawaii.edu

### Mike French

Workplace Education Developer/Trainer  
Gary Tang Adult Education Center, Arizona  
PHONE: 623-842-8186  
FAX: 623-915-4081

### Upper Midwest Region Representatives

**Dan Cleveland**  
National Sales Manager  
National Occupational Competency Testing  
Institute (NOCTI), Michigan  
PHONE: 231/796-4695 ext. 21  
dcleveland@nocti.org

### Dora Welker

Principal Education Consultant  
Career Development Division  
Illinois State Board of Education  
PHONE: 217/782-4620  
dwelker@isbe.net

### Northeast Region Representatives

**Marie Barry**  
New Jersey Department of Education  
PHONE: 609/984-5969  
marie.barry@doe.state.nj.us

### John Stivers

Curriculum Coordinator for Career and  
Technical Education  
Maine Department of Education  
PHONE: 207/624-6745  
john.stivers@maine.gov

### Southeast Region Representatives

**Bethany T. Clem**  
Education Administrator  
Career Technologies and Technical Education  
Alabama Department of Education  
PHONE: 334/242-9112  
bclem@alsde.edu

### Robin Schott

Manager, Innovative Initiatives and Services  
Oklahoma Department of Career and  
Technology Education  
PHONE: 405/743-5554  
rscho@okcareertech.org

### Newsletter Editor

**Douglas Webster**  
Industry Skill Standards Coordinator  
Career and Workforce Development  
Vermont Department of Education  
PHONE: 802/828-5145  
dwebster@doe.state.vt.us

# Agenda

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**TUESDAY, April 27, 2004**

5:00 p.m. **NAWI Board Meeting (by invitation)** Magnolia Room  
*Peggy Watson, NAWI President*



**WEDNESDAY, April 28, 2004**

7:00 - 8:30 a.m. **Continental Breakfast offered at the Woodlands Hotel**

7:45 a.m. **Conference Registration** Cascades Foyer

8:30 a.m. **General Session I** Cascades Room

**Welcome**

*Peggy Watson, Administrative Coordinator, Virginia CTE Resource Center, NAWI President*

**Conference Overview**

*John McDonagh, Executive Director, Massachusetts Center for Career and Technical Education  
NAWI Conference Planning Committee*

**Greetings and Introduction of Speaker**

*Robert A. Almond, State Director, Office of Career and Technical Education Services  
Virginia Department of Education*

**The Role of Career and Technical Education in Educating Virginians for a Lifetime**

*Dr. Belle S. Wheelan, Secretary of Education, Commonwealth of Virginia*

9:45 a.m. **Break** Cascades Foyer

10:00 a.m. **Breakout Sessions I**

**Virginia's Online Curriculum for CTE**

*Mary Grattan and Nathan Pope, Virginia CTE Resource Center*

Facilitator: *John McDonagh*

Visit VERSO, Virginia's new statewide online curriculum for Career and Technical Education. Discover how VERSO brings together CTE competencies, academic standards, industry certification, and classroom resources into one interactive website for teachers and administrators. Find out how VERSO's development process and delivery system may be helpful to career and technical educators in other states.

**Applied Information Technology Education**

*Jodi Harris, Anna Faye Kelley-Windsor, and Dan Hudson*

*Mississippi Gulf Coast Community College*

Facilitator: *Dan Cleveland*

The NSF Applied Information Technology Education Project (AITE) at Mississippi Gulf Coast Community College has paved the way for the development of the first Database Administration Technology program in the state. This curriculum will produce a well-rounded student prepared for entry-level employment in the database administration field. The program prepares students for the Oracle DBA certification and exposes them to real world "hands-on" applications. This workshop will explore the DBT curriculum, describe Oracle certification, and demonstrate the real-world case study designed by MGCCC students.

Oak Room II

**Rubrics: What, Why, and When?**

Azalea Room

*Julie Stratton and Diane Stelacio, Cape May (New Jersey) County Technical School District*Facilitator: *Marie Barry*

Our school developed a collection of standards and rubrics that can be used by all teachers for a variety of assignments. Learn the benefits of using rubrics for all grade levels and classes, how to modify and use these materials, where to find resources, and how to adapt certain standards and rubrics.

11:00 a.m.

**Break**

Cascades Foyer

11:15 a.m.

**Breakout Sessions II****Career Clusters: Framework for Oklahoma Tech Prep Success**

Oak Room I

*Robin Schott, Oklahoma Department of Career and Technical Education**Sally Arrington, Great Plains Technology Center, Lawton, OK*Facilitator: *Doug Webster*

Examine an overview of state and local perspectives for the implementation of career clusters. Learn how Oklahoma has evolved their Tech Prep initiative to include a required component for the development and implementation of career clusters. One local Tech Prep consortium will share its change in philosophy from technical program implementation to a broader version of cluster implementation with a Law, Public Safety, and Security Cluster that has recently been recognized as a national pilot site.

**Problem Oriented-Learning Brings Real World to Students**

Oak Room II

*Ann Beheler, Collin County (Texas) Community College**Ezra Penerson, Texas Instruments*Facilitator: *Bethany Clem*

The message from North Texas businesses has been consistent: students need problem-solving and critical thinking skills to be able to apply what they have learned and to become successful on the job. Learn about our Convergence Lab where we have created case-study type projects to allow students to develop solutions to real world problems.

**Integrated Approach to Remedial Needs for Future Technicians**

Azalea Room

*Vincent DiNoto, Jr., Darrell Abney, Paul Drake, and Randy Wilson**Kentucky Community and Technical College System*Facilitator: *John Stivers*

Discover how the KTeam Model meets the needs of students who enter college in the need of remedial work in both mathematics and English. Supported by National Science Foundation Advanced Technological Education grants, KTeam uses a one-semester applied physics class as the nucleus for meeting the remedial needs in mathematics and English for students seeking careers in technology and for integrating computer literacy skills. All work done in English, mathematics, and computer literacy involve principles developed in the applied physics class, which is taught over interactive television.

12:15 p.m.

**Lunch**

Dogwood Room

1:30 p.m.

**Breakout Sessions III****Workplace Safety in the National Career Clusters**

Azalea Room

*Dr. Frances Beaman, Southern Illinois University**Dr. Carol Stephenson, National Institute for Occupational Safety and Health*Facilitator: *Barb White*

Making the best better: The National Institute for Occupational Safety and Health has collaborated with the National Career Cluster Initiative to infuse workplace safety into the Career Cluster framework. Learn the most critical health and safety foundation skills in the Career Clusters and how to infuse them into the curricula; learn about safety issues and participate in activities that can be used in the classroom; and learn how to obtain six health and safety modules that can be used in any CTE classroom.

**Carousel (15 minute sessions presented 3 times in the hour)**

Cascades Room

Facilitators: *Peggy Watson and John McDonagh***Connecting Careers to the Classroom***Doris Humphrey and Katie Hall, Career Solutions Training Group*

Any teacher can integrate academic and career content by applying the simple formula CCDA: **C**reating materials that allow students to **C**onnect classes to careers through **D**iscovery and **A**pplication. Learn how to add the "twist" that ties career information to any subject.

Through a series of examples, exercises, and activities from actual Hands-On-Academics lessons, discover how to use local employers and the Internet to make careers meaningful to students.

## **VTECS DIRECT**

**Ron McCage, V-TECS**

Discover how to use V-TECS DIRECT and V-TECS Connect to design programs and to manage work-based learning situations. VTECS DIRECT now contains foundation and pathway information developed for the 16 clusters as a part of the States' Career Clusters Project.

## **Integrated Academics in Written and Performance Assessment**

**Sandy Pritz, N.O.C.T.I.**

Career-technical tasks have embedded academics. The way that students apply those academics enable them to respond correctly to assessment items linked to those tasks. NOCTI analyses indicate that students tend to demonstrate higher levels of academic attainment on performance tests than on written tests. Learn how to use data about specific points of student strength and weakness to improve instruction in both academic and technical areas.

## **Preparing 21<sup>st</sup> Century Workforce through Focused Career Planning**

**Angie Overton, National Career Assessment Services, Inc.**

Discover how educators and business leaders collaborate to strengthen college and career planning, helping individuals successfully transition into the workforce. Nationally, the innovative Kuder® Career Planning System combines research-based assessment, career development, and program management with a broad-based curriculum. Examine the online system that provides individual and aggregate reporting and strengthens communication between secondary schools, postsecondary institutions, workforce centers, business and industry, and state agencies.

## **Integrating Academics and Family Consumer Sciences**

**Emily O'Connor and Della Gordon, Garfield High School, Virginia**

Child Life and Literature integrates language arts and family and consumer sciences. Examine the course history and content, the career successes of students who have completed the course over the last ten years, and strategies for forging meaningful partnerships. Find resources for planning and implementing this program, such as samples of student lesson plans implemented at the elementary school and examples of other student products.

## **Zap the Gaps: Defining and Measuring Critical Core Competencies**

**Dan Cleveland and Lana Ford, N.O.C.T.I.**

Meeting current and anticipated shortages in the work force requires improved approaches to education, training, and retention practices. Find out how NOCTI has helped customers define and measure the critical core competencies for a variety of occupations and employability skills. Pre- assessment identifies the "GAP" for each individual so they can take steps to progress, and post- assessment shows the "GAIN" and validates the prospective employee's skill and competency.

## **Career Communications**

**Ann Craig and Barbara Orwig**

Meet the publishers of career-oriented magazines that help students, parents, and educators navigate the career development experience and the world.

2:30 p.m.

## **Break**

Cascades Foyer

2:45 p.m.

## **Breakout Sessions IV**

### **Meeting NCLB Requirements through Team Teaching and Articulation**

**Doug Webster, Vermont Department of Education**

**Natalie Searle, Community College of Vermont**

Facilitator: *John Stivers*

Azalea Room

The US Department of Education has endorsed Vermont's process to develop "teaching partnerships" between career and technical educators and academic instructors. Discover how the process satisfies the No Child Left Behind "qualified" teacher requirements to award embedded academic credit in CTE programs. CTE instructors who do not hold a BS in an academic subject partner with academic instructors to ensure students meet academic standards.

### **Carousel (15 minute sessions presented 3 times in the hour)**

Facilitators: *Peggy Watson and John McDonagh*

Cascades Room

### **Connecting Careers to the Classroom**

**Doris Humphrey and Katie Hall, Career Solutions Training Group**

## **VTECS Direct**

**Ron McCage, V-TECS**

**Integrated Academics in Written and Performance Assessment**  
*Sandy Pritz, N.O.C.T.I.*

**Preparing 21<sup>st</sup> Century Workforce through Focused Career Planning**  
*Phil Harrington, National Career Assessment Services, Inc.*

**Integrating Academics and Family Consumer Sciences**  
*Emily O'Connor and Della Gordon, Garfield High School, Virginia*

**Zap the Gaps: Defining and Measuring Critical Core Competencies**  
*Dan Cleveland and Lana Ford, N.O.C.T.I.*

**Career Communications**  
*Ann Craig and Barbara Orwig*

5:30 p.m.

**President's Reception**

*Sponsored by*  
**Career Communications**  
**National Career Assessment Services, Inc.**  
**National Occupational Competency Testing Institute**  
**VTECS**

Cascades Terrace  
(rain location: Oak Rooms I/II)



**THURSDAY, April 29, 2004**

7:00 - 8:30 a.m. **Continental Breakfast offered at the Woodlands Hotel**

7:45 a.m.

**Conference Registration**

Cascades Foyer

8:30 a.m.

**General Session II**

Cascades Room

**Legislative Update/National News**

**Kim Green, National Association of State Directors of Career Technical Education Consortium**

A highlight of recent NAWI conferences, Kim Green presents the picture of career and technical education on the national scene including the status of Perkins reauthorization as well as other related legislation.

Facilitator: *John McDonagh*

9:45 a.m.

**Break**

Cascades Foyer

10:00 a.m.

**Breakout Sessions V**

**Ethics and Technology: From the Workplace to the Classroom**

**George Taliadouros, Minuteman School of Science and Technology, Massachusetts**

**Pam Barry, Southeastern Regional Technical Institute, Massachusetts**

Facilitator: *John McDonagh*

Oak Room I

The use of technology in the workplace presents a variety of ethical concerns that should be addressed in the career and technical education curriculum. Explore the connections between ethics and technology in the workplace and present strategies to help students incorporate an ethical use of technology into their skill sets: academic, employability, and technical.

**You Want Me to Teach What? Chem Tech**

**Heyward Hickman, South Carolina Department of Education**

Facilitator: *Amy McCaskill*

Oak Room II

Learn about newly revised South Carolina teacher-developed Chemistry for the Technologies Modules that include several new lab activities designed by SC instructors to address SC science curriculum standards – activities that actively engage students in learning chemistry. The lab modules are based on actual business and industry applications of chemistry. Support materials for teaching Chemistry for the Technologies include timelines for block and traditional settings, safety issues, course outline correlated to the SC science standards, lab worksheets, improved graphics, equipment list, and glossary of terms. Obtain a CD that contains a copy of both the teacher and student materials.

11:00 a.m.

**Break**

Cascades Foyer

11:15 a.m.

## Breakout Sessions VI

### Measuring Academic Achievement in CTE

*Dr. Sandy Pritz, N.O.C.T.I.*

Facilitator: *Dan Cleveland*

Oak Room I

Career-technical tasks contain embedded academics. When state and national academic standards are linked to critical occupational competencies, assessment scores reveal much about students' current academic capabilities. Explore the expanded role NOCTI has undertaken to address technical literacy needs in career-technical assessment.

### Industry-Based Skills Standards for Students

*Karen Wosczyzna-Birch, Connecticut College of Technology*

*Mary de Manbey, Connecticut Business and Industry Association*

Facilitator: *Robin Schott*

Oak Room II

Employers often express concern about the differences between what is being taught in schools and what skills they need in workers in order to remain competitive. Find out how the NSF-funded partnership between a community college system and a statewide business association provided the opportunity for students to gain technology-based certifications in IT and Manufacturing, such as Microsoft A++, MOUS, and Networking. The partnership also provided work-based learning opportunities that helped teachers bring real world applications to the classroom through work-based projects.

### The Case Files

*Dr. Jim Johnson, Nashville State Technical Community College*

Facilitator: *Marie Barry*

Azalea Room

Problem-based case studies are different from traditional case studies in that students develop solutions to current authentic business problems rather than follow an historical event. Examine the work done at Nashville State Technical Community College related to the development and implementation of problem-based case studies in Information Technology and Engineering Technology courses.

12:15 p.m.

### Lunch

Dogwood Room

1:30 p.m.

### Business Tours

Choose one of three tours in **Agricultural and Service Trades, Travel/Tourism, and Manufacturing**. Sign-up at the conference registration desk.

#### ❖ **Horticulture, Agriculture, and the Trades: Colonial Williamsburg Behind-the-Scenes Tour**

Meet at the Visitor's Center Bridge to begin your walking tour of Colonial Williamsburg's gardens, livestock areas, and trades. Hear why a particular occupation was important in the 18th century and what kind of training was required. Compare this with related jobs in Colonial Williamsburg today, and note how the skills and job requirements have changed. Also, get a sense of the big picture of the Colonial Williamsburg's role in the economy of this area of the state. (Wear comfortable shoes!)

Facilitator: *Mary Grattan, CTE Resource Center*

#### ❖ **The Colonial Taverns and the Williamsburg Inn: Colonial Williamsburg Behind-the-Scenes Tour**

Meet at the Visitor's Center Bridge and walk towards the colonial taverns on Duke of Gloucester Street. Your tour will begin at Shield's Tavern at 2:00 p.m. See how the 18th and 21st centuries blend well in Colonial Williamsburg's taverns to create an atmosphere of 200 years ago, but incorporate the best of this century's training, technology, and food service skills. Then, walk over to Colonial Williamsburg's four-star Williamsburg Inn and experience the finest in hospitality. Your tour will end in the East Lounge of the Inn. (Wear comfortable shoes!)

Facilitator: *Margaret Gunter, CTE Resource Center*

#### ❖ **Ball Corporation** (Board bus at the front of the Woodlands Conference Center at 1:30 p.m.)

Ball Corporation is a manufacturer of metal and plastic packaging, primarily for beverages and foods, and a supplier of aerospace and other technologies and services to commercial and governmental customers. The company's businesses are comprised of three segments: North American packaging, international packaging, and aerospace technologies.

Tour the Ball Corporation facility in Williamsburg, a part of the Ball Metal Beverage Container Operations, and learn how this manufacturing plant produces and supplies its product to other manufacturers. You'll hear how this plant, built in 1972, produces aluminum cans for major beer and soft drink manufacturers along the eastern seaboard. Talk to your tour guide about the number of employees, the required job skills, and other aspects of Ball Corporation's contributions to the economy of the Tidewater area of Virginia.

Facilitator: *Mike Merritt, CTE Resource Center*

5:00 p.m.

### Return to Hotel

• • • Dinner on your own • • •



FRIDAY, April 30, 2004

7:45 a.m.	<b>Buffet Breakfast</b>	Cascades Room
7:45 a.m.	<b>Conference Registration</b>	Cascades Foyer
8:30 a.m.	<b>General Session III</b>	Cascades Room
	<p><b>Math, Science and Technology Initiatives of the National Science Foundation</b>  <i>Daniel L. Householder, Program Director, Elementary, Secondary and Informal Education</i>  <i>National Science Foundation</i>            Facilitator: <i>Doug Webster</i></p> <p>Enjoy an orientation to currently funded initiatives in the Advanced Technological Education (ATE) program, which promotes the secondary and postsecondary education of science and engineering technicians. ATE supports program improvement efforts, articulation partnerships for technical teacher preparation, professional development opportunities and technical experiences for educators, and national and regional centers in a wide range of technical fields. Learn program solicitation priorities and how to prepare proposals to the ATE program.</p>	
9:45 a.m.	<b>Break</b>	Cascades Foyer
10:00 a.m.	<b>NAWI Business Meeting</b> <i>All NAWI members/conference participants are welcome to participate.</i> <i>Conference registration provides a one-year membership in NAWI.</i>	Cascades Room
11:30 a.m.	<b>Adjourn</b>	

## Map: Woodlands Conference Center

