



NAWI

2007 Conference Announcement

The National Association for Workforce Improvement (NAWI) is an organization dedicated to program improvement in Career and Technical Education

Welcome!

Hello from the National Association for Workforce Improvement (NAWI). We are an organization made up of individuals from many states, who work in a variety of careers, and who are all devoted to improvement of career-technical programs for students. NAWI has a long history of providing excellent professional development opportunities, and this year is no exception.

We encourage you to join us for our 42nd annual conference at the Allerton Hotel Chicago, April 25-27, 2007. Our 2007 conference theme is *Career and Technical Education: Capitalizing on Emerging Technologies*, and we have an exceptional program planned! Take a look at the program and registration information provided in this conference announcement. You won't want to miss it.

Consultant at the Illinois Department of Commerce and Economic Opportunity and respected industry researcher Bob Sheets will kick off the conference on Wednesday with his address, *Utilizing Business Pathways and Emerging Technologies to Create the Knowledge Worker*. Thursday's program will feature futurist Michelle Bowman, managing partner of Global Foresight, Inc., and her outside-the-box work with secondary CTE programs in the state of Massachusetts. Celebrated author of *The Next Big Thing Is Really Small: How Nanotechnology Will Change the Future of Your Business*, electrical engineer Deb Newberry will address the changes in store for CTE programs. She is director of the nanoscience program at Dakota County Technical College, which delivered the first multidisciplinary nanoscience technology associate's degree program in the Midwest. On Friday, Kimberly Green of the National Association of State Directors of Career and Technical Education (NASDCTEc) will provide "the latest" on Perkins and CTE at the federal level. Ms. Green's address is a perennial favorite of NAWI conference attendees.

Breakout sessions featuring cutting-edge CTE programs and three exciting business-industry tours (choose one) in the Chicago area round out our conference program. Ask anyone who has attended a NAWI conference, and you'll find out. You will get a lot of bang for the buck at this small conference, and because it is small, you will have ample opportunity to network with CTE professionals from around the country.

We hope to see you in Chicago April 25-27.

Amy McCaskill
President, NAWI





National Association for Workforce Improvement

42nd Annual Conference
April 25–27, 2007
The Allerton Hotel
Chicago, Illinois

Career and Technical Education: Capitalizing on Emerging Technologies

- ◆ Instruction in Emerging Technologies
- ◆ Business Pathway Projects and Assessments
- ◆ Green Technologies
- ◆ Next Generation Industry Certifications
- ◆ Math, Science, CTE, and Industry Project Development
- ◆ The Knowledge Worker
- ◆ Academic and Technical Assessment Integration: Reducing the Silos

The National Association for Workforce Improvement (NAWI) is an organization of state and local career and technical educators dedicated to career and technical education program improvement. NAWI includes secondary, postsecondary, and workplace members.

Come to the 2007 NAWI Conference to learn about best practices from colleagues in CTE and related fields and to expand your network to be more successful in your current and future work. We guarantee that you will have an opportunity for enjoyable learning and sharing.

Check the NAWI Web site <<http://www.nawi.ws>> for updates and membership information. (Annual membership fee is \$10.00.)

Hotel Information

The Allerton Hotel
701 North Michigan Avenue • Chicago, IL 60611
312-440-1500

- ◆ Hotel reservation deadline: **March 23, 2007**
- ◆ Ask for “National Association for Workforce Improvement” room block
- ◆ Single and double occupancy rate: \$138.00 (2007 federal per diem) plus tax; one bed only.
- ◆ Rooms with two double beds are \$168.00 plus tax (based upon availability).
- ◆ NAWI group rate will be available three days pre- and three days post-conference (based on availability).
Check-in: 3:00 p.m. Check-out: 12:00 noon



NATIONAL ASSOCIATION FOR WORKFORCE IMPROVEMENT

http://www.nawi.ws

Career and Technical Education: Capitalizing on Emerging Technologies

April 25-27, 2007

The Allerton Hotel • Chicago, Illinois

Conference Registration Form

Name Badge Information
(Please type or print)

Billing Information
(If using a purchase order)

Name: _____

Attn: _____

Title: _____

Organization: _____

Organization: _____

Address: _____

Address: _____

City: _____ State: _____ Zip: _____

City: _____ State: _____ Zip: _____

Phone: _____

Phone: _____

Fax #: _____

FAX #: _____

Purchase Order #: _____

E-mail: _____

(Please include copy of Purchase Order)

Registration Deadline: April 13, 2007 Registration Fee: \$300.00 (includes 1 year NAWI membership)

Refund Policy: All refunds must be requested in writing and postmarked by April 20, 2007.

Please make check payable to: **SACS (Southern Association of Colleges and Schools; Fed. ID: FEIN 580566240)**

Please mail your payment and registration form to:

Amy McCaskill
Suite 912-B Rutledge Building
1429 Senate Street
Columbia, SC 29201
Phone: 803/734-4901
FAX: 803/734-3525

Register online at <http://www.nawi.ws>

Will you be bringing guests? Yes ___ No ___ How many? ___

Please indicate below which functions you and your guests will be attending.

Conference Activity	Participant Fee	Guest Fee	Number of Guests Attending	Amount Due
REGISTRATION	\$300.00	N/A		\$300.00
Wednesday Lunch* Yes___ No___	Included	\$30.00 per person	_____	_____
Thursday Lunch* Yes___ No___	Included	\$30.00 per person	_____	_____
Friday Breakfast* Yes___ No___	Included	\$30.00 per person	_____	_____
Business Tour April 26, 2007 Yes___ No___	Included	\$20.00 per person	_____	_____
			(Name of guests)	
			Total Fees Due:	_____

*Accurate meal counts are necessary. If you plan to attend a meal, please mark numbers in the spaces above.



42nd Annual
National Conference

*Career and Technical Education:
Capitalizing on
Emerging Technologies*



The Allerton Hotel
Chicago, Illinois
April 25–27, 2007



Pre-Conference Program

Agenda



TUESDAY, April 24, 2007

4:00 p.m.

NAWI Board Meeting
Amy McCaskill, NAWI President

Sullivan



WEDNESDAY, April 25, 2007

7:30 a.m.

Continental Breakfast

Renaissance Pre-Function

8:30-9:30 a.m.

General Session I

Renaissance

NAWI Greetings

Amy McCaskill, Education Associate
South Carolina Department of Education
NAWI President

Welcome to Illinois

Mark Williams, State Director
Career and Technical Education
Illinois Department of Education

Conference Overview

Doug Webster, Industry Skill Standards Coordinator
Vermont Department of Education
NAWI Vice President

Utilizing Business Pathways and Emerging Technologies to Create the Knowledge Worker

Bob Sheets, Director, Research and Development
Business and Industry Services
University of Illinois at Urbana-Champaign

9:30-10:30 a.m.

Breakout Sessions I

Planning a Biotech Pathway

Kathy Turner, Health Science Consultant
North Carolina Department of Public Instruction

Renaissance

North Carolina has the third largest concentration of biotechnology companies in the country. Due to the tremendous growth, the NC Department of Public Instruction and Career and Technical Education have partnered with the biotechnology industry to develop opportunities for students to learn more about and develop an interest in biotechnology. Participants will receive information about curricular products and student guides, as well as review plans for future course development. Never before have CTE students had more options and opportunities!

**Renewable Energy Training at Upper Cape Tech:
Establishing Hands-on Programs**

Leo Bedard
Upper Cape Cod Regional Tech School

Venetian

Upper Cape Tech, in collaboration with Cape Cod Community College and with National Science Foundation funding, has implemented innovative interdisciplinary classroom and lab activities that educate students in the installation of renewable energy systems. Students are provided with real world projects that allow contextual learning and promote workplace readiness. Attendees will learn where to look for funding opportunities in their states to pay for equipment and staff development. They will also learn how to utilize existing facilities to house these initiatives.

10:30-10:45 a.m. *Break*

10:45-11:45 a.m. *Breakout Sessions II*

Using Problem Based Scenarios to Increase the Math and Science Content in Career Technical Education Programs

Renaissance

Frances Bauman, Project Coordinator

Illinois Math, Science and Industrial Technology Project
Southern Illinois University

Vinay Mullick, Instructor

Paul Robeson High School, Chicago

Kurt Wolter, Technology Teacher

Rochelle Township High School, Rochelle, Illinois

Attend this session to learn how CTE can be a part of the national Science Technology Engineering and Mathematics (STEM) initiative. Hear how schools are expanding high school programs to increase math and science in Career and Technical Education programs. Find out how this Illinois initiative is promoting economic development that benefits students, instructors, business partners, and schools by implementing problem based scenarios rich in math and science. Learn about strategies and best practices school districts have used and receive copies of curriculum materials.

Partnerships in PTEC...Powerful Results!

Venetian

Joanna Perkins

Center for the Advancement of Process Technology
Texas City, Texas

Evette Torres, Workforce Development

Shell Oil Company

The presentation will focus on partnerships among education, industry, an NSF Advanced Technological Center of Excellence, Tech Prep and other nonprofit institutions with an interest in a qualified, well-trained workforce. These partnerships provide activities that reach out to several educational sectors including middle schools, high schools, community colleges, and universities, spreading the message from the energy industry that math and science skills are a must in the world of work. All involved share a common goal of developing a qualified, skillful and diverse workforce. The active, visible industry support provided in the partnership activities strengthens this message to students as it gains attention from parents.

Next Generation Manufacturing in the US

Miesvanderrohe

Karen Birch, State Director

College of Technology, Connecticut Community Colleges

Mary deManbey, Program Manager

Connecticut Business and Industry Association

The Connecticut Community Colleges, College of Technology has a National Science Foundation-funded Regional Center for Next Generation Manufacturing (RCNGM), which has implemented a successful marketing campaign targeting high school students, teachers, and career counselors. The presentation will focus on how the RCNGM was able to work with the CT Business and Industry Association to develop a career DVD, a "Manufacture Your Future" symposium that was attended by more than 3,500 students, and other marketing tools such as our Web site, pop-ups, and a TV commercial. All participants will receive our DVD with teacher guides. The DVD includes five profiles of technicians and engineers working in next generation manufacturing companies, as well as sections on career pathways available through the CT Community Colleges College of Technology.

12:00-1:00 p.m. *Lunch*

Renaissance

1:15-2:30 p.m. *Breakout Sessions III*

The Virtual Surgery Project--Students Get Up Close and Personal with the Surgical Team

Renaissance

Nancy H. Allen, Education Associate

Health Science Technology, South Carolina Department of Education

The Virtual Surgery Insider Project was created by the South Carolina Hospital Association in partnership with the South Carolina Department of Education to introduce high school students to careers in health care using real-time technology to link health science classrooms to the real world of hospitals. Through this unique career awareness program, students participate in actual surgeries telecast live to their classrooms, during which they can ask questions of the surgeon and his or her team. Engaging students through technology allows hospitals to bring more students into their environment with minimal interruption to the hospital and the school day.

Knowledge Workers: The Critical Role of Ethics in Tomorrow's Workforce

Venetian

Harvey L. Crone, CAPER Coordinator

J. Sargeant Reynolds Community College, Richmond, Virginia

To become "knowledge workers," current secondary and postsecondary students must learn basic ethical workplace behaviors. In today's emerging workforce, business and industry human resource leadership seeks workers who possess good, solid work ethics. This session will provide participants techniques on how to conduct a Business/Industry Ethics Forum for students that highlights the interaction of student leaders and business/industry partners, ethical decision-making that is critical to the success of workers in today's emerging technologies, preparation of students for career success and for transition from secondary/postsecondary education into the workforce, and the development of plans to promote ethical leadership in collaboration with education and business/industry partners.

2:30-2:45 p.m. **Break**

2:45-4:00 p.m. **Breakout Sessions IV**

A Model Project for Making Industry Meaningful In College

Renaissance

Dorene Perez, Program Director

Computer Aided Design/Computer Aided Engineering

Jim Gibson, Program Director of Electronics

Rose Marie Lynch, Communications Instructor

Illinois Valley Community College

A multi-disciplinary project titled Making Industry Meaningful In College (MIMIC) at Illinois Valley Community College places students in engineering design, electronics, and business into student "companies" to design, manufacture, market, and sell products. The project, supported by a National Science Foundation grant, emphasizes teamwork, critical thinking, problem solving, and communication skills. Learn how to adapt the cost effective MIMIC model to various disciplines and education levels and to organize and assess similar projects.

Incorporating Emerging Technologies in CTE Classrooms:

Venetian

A Project-Based Approach

Joe Ferrari, UFT Teacher Center Staff

Automotive High School, Astoria New York

Terri DeStefano, CTE Liaison, New York City Department of Education

Tom Cassino, CTE Instructor, Automotive High School

Judy Napoli, CTE Liaison, New York City Department of Education

This session will demonstrate the use of real world problem solving to create rich learning experiences for students. Participants will gain an understanding of specific strategies and tools to help incorporate both project-based learning and emerging green technologies in an effort to facilitate CTE/academic integration and collaboration. Attendees will learn about Automotive High School's waste vegetable oil vehicle, the "Grease Car" that has been the feature of several television feature stories.

5:00-6:00 p.m. **Vendors Roundtable in Reception Area**

Renaissance

5:30 p.m. **Reception**

Renaissance



THURSDAY, April 26, 2007

7:30 a.m. **Continental Breakfast**

Renaissance Pre-Function

8:30-10:15 a.m. **General Session II**

Renaissance

Taking a Look at the Future

Michelle Bowman, Managing Partner, Global Foresight, Inc.

David Wheeler, Director of Standards and Assessment

Massachusetts Department of Education

Nano-Micro Technology Integration in Education

Deb Newberry

Dakota County Technical College, Rosemount, Minnesota

Author, *The Next Big Thing Is Really Small: How Nanotechnology*

Will Change the Future of Your Business

10:15-10:30 a.m. *Break*

10:30-11:30 a.m. *Breakout Sessions V*

Comprehensive Engineering Design Education in Support of Knowledge Based Economy

Renaissance

Mileta Tomovic

Craig Miller

Cynthia Tomovic

Purdue University

Many societies are going through a transition from traditional manufacturing economies to knowledge-based economies, where people will need to acquire new technological skills, develop ability to innovate, and solve problems in a complex environment. Midwest Coalition for Comprehensive Engineering Design Education, sponsored by NSF ATE program, is one of the venues that intends to develop such skills in the 2- and 4-year college population. The program intends to develop integrated curriculum, focused on the holistic approach to product concept definition, production, serviceability, and recycleability. The new philosophy calls for the use of tools and technology enabled by a digital collaborative environment, with the goal to improve competitiveness through the effective sharing and use of information.

Nano-Micro Technology in the 21st Century

Venetian

Deb Newberry

Dakota County Technical College, Rosemount, Minnesota

Keynote speaker Deb Newberry will lead a discussion on the impact small technology will have on materials, products, and commerce and, for the purposes of the NAWI conference, how educators will incorporate nanotechnology applications in curriculum in various disciplines. Examples of how nanotechnology is being used to improve our lives, preserve our natural resources, affect climate change, and get students excited about science and technology will be discussed.

11:30 a.m.-12:45 p.m. *Lunch*

Renaissance

1:00 p.m. *Buses Depart for Business-Industry Tours (choose one)*

National Center for Learning and Teaching in Nanoscale Science and Engineering (NCLT) <http://www.nclt.us>

Argonne National Lab <http://www.anl.gov>

Chicago Research Park and Rush University Medical Center
<http://www.imdc.org/CTP/AboutCTP.htm> and <http://www.rush.edu>



FRIDAY, April 27, 2007

7:30-8:30 a.m. *Full Breakfast*

Renaissance

8:30-9:30 a.m. *General Session III*

State Assessment Systems: Focus on the Next Generation Industry Credential

David Wheeler – Massachusetts

Doug Webster – Vermont

National Perspective

9:30-10:15 a.m. ***State of the Union in Career and Technical Education***

Kimberly Green, Executive Director

National Association of State Directors
of Career Technical Education Consortium (NASDCTEc)
Washington, DC

10:15 -10:30 a.m. *Break*

10:30 a.m. ***NAWI Business Meeting***

All NAWI members/conference participants are urged to participate.
Conference registration includes a one-year membership in NAWI.

11:30 a.m. ***Adjournment***



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Welcome to the National Association for Workforce Improvement. The NAWI promotes the exchange of ideas and acquaints its members with significant developments and trends in workforce education program improvement.

Membership in NAWI provides opportunities 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 a national agenda for workforce education program improvement
- participate in conferences featuring national leaders in workforce education program improvements.

For more information on NAWI in your area, contact the Regional Representatives indicated above. The NAWI Constitution is available, along with information on the NAWI listserv, at the following Web site:

NATIONAL ASSOCIATION FOR WORKFORCE IMPROVEMENT

<http://www.nawi.ws/>