



American Technical  
Education Association

**METROPOLITAN**  
COMMUNITY COLLEGE

Photos courtesy of Greater Omaha Chamber of  
Commerce



Oct. 6-7, 2011  
Metropolitan Community College  
Omaha, Neb.

Bridging the Future of Technical Education

**American Technical  
Education Association (ATEA)**  
Region 5 Conference



Hosted by  
Metropolitan Community College,  
Omaha, Neb.

# ATEA Region 5 Conference

## Welcome to Omaha!

Thank you for attending the 2011 ATEA Region 5 Conference. We would like to welcome you to Omaha and Metropolitan Community College.

Please read through this program and all the information in your registration packet carefully.

Conference information:

- If you have not pre-selected your sessions, see the Conference Check-In Desk located in the lobby of the Doubletree Hotel.
- Wear your name badge at all times. It will admit you to all Conference events.

The Conference will provide transportation for all conference events. If you plan to go on one of the optional side trips on Oct. 6 or to see the city of Omaha during your free time, the Doubletree Hotel has a free shuttle available. Keep in mind that shuttles are subject to availability and must be reserved one-half hour ahead of time.

Doubletree Hotel check-out is 11 a.m. Check with the front desk to arrange for bag storage. **Please refer to your schedule for transportation details.**

If you have any questions, concerns or need general information, call the Conference Staff at **(402) 457-2637**.

Once again, welcome!

We hope you enjoy the 2011 ATEA Region 5 Conference!

# Conference Schedule at a Glance

## Wednesday, Oct. 5

**6–8 p.m. ATEA Executive Committee**  
Kansas Room, 3rd Floor, Doubletree Hotel

## Thursday, Oct. 6

**9 a.m.–noon ATEA Board of Trustees Meeting**  
Dakota Room, 3rd Floor, Doubletree Hotel

**10 a.m.–5 p.m. Registration, Doubletree Hotel Lobby**

**11 a.m.–noon ATEA Region 5 Council Meeting**  
Wyoming Room, 3rd Floor, Doubletree Hotel

### Lunch on your own

**12:40 p.m. Board buses for Business and Industry Tours**

**1–4 p.m. Business and Industry Tours or Optional Side Trips**

*Business and Industry Tours (choose one)*

See pages 4 and 5 for detailed information about the tour you have pre-selected.

1. Omaha World-Herald
2. TD Ameritrade Park/CenturyLink Center
3. Lauritzen Gardens

*Optional side trips on your own – Enjoy the sites of Omaha!*

Consult the program for details about these venues and arrange your own transportation.

1. Henry Doorly Zoo
2. Durham Western Heritage Museum
3. Joslyn Art Museum
4. Lauritzen Gardens

**5:30–8:30 p.m. Banquet (casual attire)**

Metropolitan Community College  
Swanson Conference Center, Bldg. 22  
30th & Fort St.

5:30 p.m. Board buses on Capitol Avenue side of Double Tree  
5:40 p.m. Buses depart from Doubletree Hotel to MCC  
6 p.m. Arrival – pre-dinner reception, cash bar  
6:30 p.m. Dinner  
7 p.m. Keynote speaker, Aaron Davis  
8 p.m. Awards  
8:15 p.m. Buses depart from MCC to Doubletree Hotel

Remainder of evening on your own (an opportunity to explore downtown Omaha)

# Conference Schedule at a Glance

**Friday, Oct. 7**

**Breakfast on your own**

**7–9 a.m. Registration, Doubletree lobby**

**7:45 a.m. Board buses/vans for pre-selected block sessions.**

All buses leave from the Doubletree Hotel, Capitol Avenue entrance

**8 a.m. Buses/vans depart**

**8:30–11:30 a.m. Block Sessions (choose one)**

See pages 6 through 10 for detailed information about the session you have pre-selected.

Technical Sessions:

1. Auto Collision
2. Paint and Technology Seminar
3. Compressed Natural Gas (CNG) Conversion for Transportation
4. Electric
5. Construction Technology
6. Culinary Arts/Horticulture
7. Diesel/Truck Driving
8. Electrical
9. Health Careers
10. HVAC
11. Manufacturing/Welding
12. Sustainable Energy

Non-Technical Sessions:

13. Dream It Do It including a Tour of the Metropolitan Community College Institute for the Culinary Arts Building and Fort Omaha Campus.

**Lunch on your own**

Keynote Speaker

## Aaron Davis

### Perform like a Champion



**A**aron Davis speaks about performing like a champion from personal experience. As a member of the 1994 National Championship Nebraska Football team and having worked with numerous corporations and organizations, he understands firsthand what it takes to perform like a champion and experience incredible results both personally and professionally.

Davis is not just a speaker “telling” other companies and individuals how to succeed. He is in the trenches everyday as the President of his own consulting firm, ADP, Inc., and the partner in two other successful companies: [www.kidcommand.com](http://www.kidcommand.com), which is an e-learning virtual world game for kids, and [www.boxwire.com](http://www.boxwire.com), a virtual suggestion box used by some of today’s top companies to receive feedback from both customers and employees.

His speaking and consulting company Aaron Davis Presentations, Inc. received the Chamber of Commerce Outstanding Minority-Owned Business Award, and Toastmasters International awarded him the Communication and Leadership Award. The *Lincoln Business Journal* also awarded him one of Lincoln’s 40 under 40 business achievement awards. He also received the key to the city of Lincoln from former Lincoln Mayor Colleen Seng.

Davis has authored three books and co-authored two others that are changing the lives of thousands. His best friend is his wife Brooke, and his greatest treasures are his two sons Aden and Keenon and daughter Niya.

# Business and Industry Tours

## Transportation available

Buses/vans leave from the Doubletree Hotel Capitol Avenue side at 12:45 p.m. Plan to arrive at 12:40 p.m. to locate and board. All venues except Lauritzen Gardens are also within walking distance of the Doubletree Hotel

### Lauritzen Gardens

100 Bancroft St.

[www.lauritzengardens.org](http://www.lauritzengardens.org)

MCC Hosts: Robert Caldwell and Christopher Urban

Length of tour: 2 hours

Lauritzen Gardens is a living museum of unique four-season plant displays maintained to the highest standards consistent with environmental stewardship. The 100-acre property boasts an arboretum and bird sanctuary, as well as an English garden, English perennial border, herb garden, festival garden, Victorian garden, rose garden, woodland trail and more.

This walking tour of Lauritzen Gardens includes a special behind-the-scenes look at the G-scale Model Railroad Garden. It surrounds visitors with a bright botanical world that features the activity of model trains continually traveling through miniature communities, landscapes and countrysides. The garden's structural elements are constructed of natural materials such as leaves, twigs, bark, berries, pinecones, gourds and cinnamon sticks. It includes stunning reproductions of natural landscapes as well as recognizable buildings and landmarks seen in and around Omaha. The flora throughout the exhibit includes live plants, trees and shrubs—all scaled to size—and continuously manicured.

### Omaha World-Herald

14th and Douglas Sts.

[www.omaha.com](http://www.omaha.com)

MCC Host: Bob Boyer

Length of tour: 1.5 hours

The *Omaha World-Herald*, based in Omaha, is the primary daily newspaper of Nebraska, as well as portions of southwest Iowa. It is also the largest employee-owned newspaper in the United States and the only remaining major metropolitan newspaper in the United States to publish both morning and afternoon editions.

The company dubs its downtown Omaha headquarters the Freedom Center. The John Gottschalk Freedom Center also houses its three printing presses, which can each print 75,000 papers per hour and are considered to be some of the most advanced in the world. In 2006, the company purchased the 16-story former Northwestern Bell/Qwest Communications building in downtown Omaha as a new base for its news, editorial, circulation and business operations.

### TD Ameritrade Park and Century Link Convention Center

1200 Mike Fahey St.

[www.tdameritradeparkomaha.com](http://www.tdameritradeparkomaha.com)

[www.qwestcenteromaha.com](http://www.qwestcenteromaha.com)

MCC Hosts: Dave Horst and Carl Fielder

Length of tour: 2 hours

In 2011, TD Ameritrade Park became the home field of the College World Series (CWS) after the NCAA signed an agreement to keep the CWS in Omaha until at least 2035 if the ballpark was built. It is also home to the UFL's Omaha Nighthawks and Creighton University's baseball team and hosts the Missouri Valley Conference baseball tournament. TD Ameritrade Park has a capacity of 24,000 people, with the ability to expand to 35,000 spectators.

CenturyLink Center is an arena and convention center facility in Omaha. The facility has an 18,300-seat arena, a 194,000-square-foot exhibition hall and 62,000 square feet of meeting space. The arena hosts various basketball games, hockey games, professional wrestling events and concerts. Other notable events held there are the annual shareholders meeting of Omaha-based conglomerate Berkshire Hathaway and in 2009, the USA Swimming Summer Olympic Trials, which will return again in 2012.

## Optional Side Trips

On your own; you must cover your admission fee. The Doubletree Hotel offers free shuttle service to these locations; shuttle service must be arranged at least one-half hour in advance of departure time.

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### **Durham Western Heritage Museum**

801 S. 10th St.

Admission: \$8

[www.durhammuseum.org](http://www.durhammuseum.org)

The Durham Museum, making its home in Omaha's beautiful art deco Union Station, houses an extraordinary array of permanent exhibits including restored train cars, 1940s store fronts, numerous artifacts showing the history of the region and the Byron Reed collection, which includes some of the world's rarest coins and documents. There are also impressive traveling exhibits through the Durham's affiliation with the Smithsonian and close ties with the Library of Congress, National Archives and Chicago's Field Museum. Be sure to stop by the authentic soda fountain and enjoy a phosphate or malt.

### **Henry Doorly Zoo**

3701 S. 10th St.

Admission: \$13.50

[www.omahazoo.com](http://www.omahazoo.com)

Visit the world's largest indoor desert and nocturnal exhibits along with one of the world's largest indoor rainforests. Other world-class exhibits included the Scott Aquarium, Hubbard Orangutan Forest and Gorilla Valley, Lozier IMAX® Theater, Durham's Bear Canyon, Butterfly and Insect Pavilion and more. Experience Skyfari, the aerial tram that transports guests to a new view of the zoo.

### **Joslyn Art Museum**

2200 Dodge St.

Admission: \$8

[www.joslyn.org](http://www.joslyn.org)

Joslyn Art Museum is a major regional resource for the collection, preservation and interpretation of the visual arts. The museum maintains a collection of art with historical significance, ranging from antiquity to the present, with special emphasis on 19th and 20th century European and American art. The museum's original 1931 building is one of the finest examples of art deco architecture in the nation. The museum features galleries, a 1,000-seat concert hall, fountain court, education technology gallery, lecture hall, classrooms, library, café and shop.

### **Lauritzen Gardens**

100 Bancroft St.

Admission: \$7

(See description provided under Business and Industry Tours on page 4)

For information about Omaha, visit [www.visitomaha.com](http://www.visitomaha.com).

Buses/vans leave from the Doubletree Hotel Capitol Avenue side at 8 a.m.  
Plan to arrive at 7:45 a.m. to locate and board the bus to your session.

## Technical Sessions

### Auto Collision

MCC Host: Pat McKibbin, Automotive Collision Instructor

Metropolitan Community College Applied Technology Center (ATC)  
104th & State  
Omaha, Neb.

### Paint and Technology Seminar

Presenter: Kurt Beckstrom, Sales Representative  
Keystone/LKQ Corp

The future of the paint industry, going environmentally friendly with automotive waterborne paint products, will be explained and demonstrated using waterborne equipment and various waterborne application methods. EPA rules and best practices in the auto body paint shop will also be open for discussion.

[www.epa.gov/dfepubs/auto/bestpractices/waterborneCaseStudy.pdf](http://www.epa.gov/dfepubs/auto/bestpractices/waterborneCaseStudy.pdf)  
[www.ccar-greenlink.org/paintrule.html](http://www.ccar-greenlink.org/paintrule.html)  
[www.epa.gov/dfepubs/projects/auto/dfep-best-practices-in-collision-repair.pdf](http://www.epa.gov/dfepubs/projects/auto/dfep-best-practices-in-collision-repair.pdf)

### Automotive

MCC Host: Al Cox, Automotive Technology Instructor

MCC South Omaha Campus (SOC), Mahoney Building, Room 309  
27th and Q.  
Omaha, Neb.

### Electric Chevy Volt

Presenter: Deeno Boosalis  
Business Strategy and Analysis Manager

Omaha Public Power District (OPPD), a publicly owned, business-managed electric utility that serves more retail customers than any other electric utility in Nebraska, will have its Chevy Volt plug-in electric car on site. OPPD will present a new program they have developed to prepare for the introduction of plug-in electric vehicles. The program is designed to provide information that customers will need as they transition to electric vehicles. It also forecasts and analyzes the future impact of electric vehicles on OPPD's generation, transmission and distribution infrastructure.

OPPD has acquired a Chevy Volt plug-in electric vehicle as part of a demonstration project sponsored by the Electric Power Research Institute (EPRI) and General Motors. OPPD is one of more than 40 utilities across the United States participating in this project. The project will gather information regarding such things as driving behavior and charging information, while giving utilities like OPPD more hands-on experience with this type of electric vehicle and providing the technological foundation for integration of the vehicles into utility systems. Information on the Volt and this project will be presented.

[www.oppd.com/AimGreen](http://www.oppd.com/AimGreen)  
[www.oppd.com/EV](http://www.oppd.com/EV)

### CNG (Compressed Natural Gas) Conversion for Transportation

Presenters: Mark Doyle, MUD  
Mike Corrigan, Lanny and Nick Wagoner,  
Fuel Conversion Solutions

The Metropolitan Utilities District (MUD) and Fuel Conversion Solutions will discuss the partnership and technical aspects of the latest addition to MCC's CNG fleet—a service van and two campus police cars. MCC has partnered with MUD on grant-funded projects that have added more than 100 CNG vehicles and three public fueling stations in Nebraska. Mark Doyle of MUD will overview the progress of CNG vehicles both locally and regionally.

Fuel Conversion Solutions has provided CNG vehicle conversions and training workshops for MCC, and MUD President Nick Wagoner was an alternatives fuel consultant and Automotive Technology instructor at Central Community College for 25 years. He is a nationally recognized alternative fuels trainer by the National Alternative Fuels Training Consortium and the Environmental Protection Agency. Wagoner's credentials include certifications as an ASE Master Mechanic, ASE Alternative Fuels and CSA Certified Cylinder Inspector. He has been a natural gas trainer and consultant for 19 years. Wagoner has trained extensively through the United States and India at the request of the U.S. Department of Energy and the National Alternative Fuels Training Consortium.

[www.fuelconversionsolutions.com](http://www.fuelconversionsolutions.com)  
[www.mudomaha.com](http://www.mudomaha.com)

### EVWORLD.COM

Presenter: Bill Moore, Publisher, *EVWORLD.COM*

*EVWORLD.COM*, one of the longest-running online journals devoted to sustainable transportation issues, is based in Omaha. Launched on Jan. 1, 1998, its mission is to both inform and help drive adoption of electric-drive and related 'clean' energy technologies. In 2009, it was recognized by the *New York Times* as one of the Top Ten No-Hype electric vehicle websites on the Internet. It was one of the first electronic publications to utilize streaming audio and video. It not only reaches a global audience via the web but also through two weekly e-newsletters and, starting in 2011, a weekly digital magazine for iPad and similar tablet devices. During the month of August 2011, the website alone served 1.7 million pages during 640,000 searches to readers mainly in North America, Europe and Asia.

*EV WORLD's* publisher and editor in chief is Bill Moore who grew up in Omaha, attending college in Texas and England.

He worked in the ministry for a decade and then returned to Omaha with his young family where he worked for Continental Airlines and authored freelance articles. He launched his first website in September 1994 and worked on contract as an Internet 'evangelist' for the AIM Institute, creating CareerLink. Three years later, he started *EV WORLD* and, working with the Omaha Public Power District (OPPD), helped launch the OPPD/NPPD PowerDrive competition. Moore has addressed audiences on EV developments both locally and internationally, as well as appeared on NPR, the BBC and Coast-to-Coast AM radio. While visiting Beijing, he also appeared on Chinese Central Television's English-language program *Dialogue*.

[www.evworld.com](http://www.evworld.com)

## Construction Technology

MCC Host: Trevor Secora, Construction Technology Instructor

Kiewit Construction Site  
330 S. 108th Ave.  
Omaha, Neb.

### Kiewit Construction

Presenter: Joe Cunningham, Kiewit Building Group

Whether it is a high-rise condominium, a college stadium, a medical center or a parking structure, Kiewit Building Group can build it and build it right, on time and within budget. Their local and regional network of offices affords community involvement of a local contractor while offering the services and resources of a nationally recognized company. They provide pre-construction, construction and post-construction services using state-of-the-art tools, providing benefits and adding value for clients and design partners. Joe Cunningham will be conducting site tours and facilitating discussions.

[www.kiewit.com/districts/kiewit-building-group-us.aspx](http://www.kiewit.com/districts/kiewit-building-group-us.aspx)

## Culinary Arts/Horticulture

MCC Host: Paul Goebel, Institute for the Culinary Arts  
(ICA) Recruiter

Metropolitan Community College Fort Omaha Campus (FOC)  
30th and Fort  
Omaha, Neb.

### MCC Culinary Arts/Horticulture

Presenters: Paul Goebel, Institute for the Culinary Arts  
(ICA) Recruiter  
Addie Kinghorn, Horticulture Instructor

The Institute for the Culinary Arts (ICA) at MCC has an amazing history of growth, with duplicated headcounts now at more than 1000 students. The ICA is well-known in the Omaha metro area and has achieved prominence throughout the country for their unique methods of education in culinary and hospitality at a comparatively low cost. Degrees are offered in Culinary Arts, Bakery, Culinology and Food and Event Management. In addition to touring the ICA kitchens, you will tour the Horticulture program and the garden that supplies many products to the ICA kitchens.

[www.mccneb.edu/culinaryarts](http://www.mccneb.edu/culinaryarts)  
[www.mccneb.edu/horticulture](http://www.mccneb.edu/horticulture)

## Diesel/Truck Driving

MCC Hosts: Luke Klingbeil, Diesel Technology Instructor  
Don Gilliland, Diesel Technology Instructor  
Rick Sandvig, Truck Driving CDL-A Instructor

The following sessions are all located at:

Omaha Truck Center  
10710 I St.  
Omaha, Neb.

### Omaha Training Center (OTC)

Presenter: Jim Walsh, HR Manager and Recruiter  
and Shawn Klein, Trainer and Terry Straw, Trainer

This tour and presentation will include an overview of the technology changes in diesel/engines/trucks that requires employers to invest heavily in continuous training. This leads to the need for educators in technical curriculum to solicit and maintain industry involvement in their programs if they expect graduates to be prepared for the workforce and the training required.

[www.e-freightliner.com/jobs](http://www.e-freightliner.com/jobs)

## **Biodiesel**

Presenter: Hoon Ge, Chemical Engineer, MEG Corp

MEG Corp is a leading fuel consulting company providing technical expertise to all segments of the diesel industry. Diesel fuel has changed significantly in recent years, and we have the knowledge and experience to help manage the challenges brought about by ultra-low-sulfur diesel and alternative fuel. Hoon Ge, a chemical engineer with 25 years in the petroleum industry, will talk about the history of diesel and provide basic information about biodiesel, America's advanced biofuel. He will explain how biodiesel is made, the benefits of using it, supply and demand, how it works with ultra-low-sulfur diesel, the OEM positions on biodiesel, biodiesel quality and troubleshooting filter plugging issues. Hoon's experience with biodiesel comes from operating the National Biodiesel Board's Troubleshooting Hotline and conducting 100 seminars annually on biodiesel.

[www.microbikill.com](http://www.microbikill.com)

## **Hybrid Class 8 Trucks**

Presenter: Russell Knudsen, Director of Corporate Finance

In order to meet the rapidly changing requirements of the industry, ePower Engine Systems, LLC has developed a hybrid drive-train technology for Class 8 vehicles that offers the performance, power, range and affordability required by truck operators. The system has been designed for retro-fitting existing vehicles to extend vehicle life and reduce capital costs. The ePower engine system utilizes a proprietary series diesel electric hybrid drive-train configuration. Fuel consumption and hence CO<sub>2</sub> production is reduced by as much as 65 percent under normal conditions of use, without any reduction in performance.

[www.epowerenginesystems.com](http://www.epowerenginesystems.com)

## **Diesel Advisory Council Panel Members**

The Diesel Truck Driving program received the Outstanding Technical Program Award last year. The program, which is in its sixth year, has a strong advisory council made up of business, education and government communities. Their contributions have been in donations in trucks, trailers, scholarships, internships and mentoring.

Dave Jacobs  
Service Manager  
Wicks-Sterling Trucks

Karen Phillips  
HR Manager/Safety Director  
Cornhusker International

Jim Walsh  
HR Manager/Recruiter  
Omaha Truck Center

Kevin Ingalls  
Gra-gar Training Coordinator  
Werner Trucking

Luke Klingbeil  
Diesel Instructor, MCC

Rick Sandvig  
Truck Driving CDL-A Instructor, MCC

## **Electrical**

MCC Hosts: John Berger, Electrical Technology Instructor;  
Geoff Horejs, Electrical Technology Instructor  
Dave Horst, Industrial and Commercial Trades Instructor

The following sessions are all located at:

Metropolitan Community College South Omaha Campus (SOC),  
Industrial Training Center, Lab Room 112  
27th and Q St.  
Omaha, Neb.

## **Significant Changes to NEC2011**

Presenter: Chad Kurdi, Dunwoody College of Technology

The National Electrical Code (NEC) is the most widely used electrical standard in the United States. Many electrical professionals use it to design, install and maintain electrical systems for different types of occupancies, equipment and conditions. NEC2011 is the latest version and expected to be adopted in many state in 2011. This presentation will highlight and explain the significant changes in NEC2011 and how it will affect the way we design and install electrical systems. This presentation is approved by MN DOL&I as two CEH for licensed electricians.

[www.linkedin.com/pub/chad-kurdi-pe/17/7a5/879](http://www.linkedin.com/pub/chad-kurdi-pe/17/7a5/879)  
[www.youtube.com/user/ChadKurdi](http://www.youtube.com/user/ChadKurdi)

## **Virtual Learning Environment**

Presenter: Dave Horst, MCC

ANGEL LMS is used by K-12 schools and districts, community colleges, universities and proprietary schools to create virtual learning environments for online learning and to offer hybrid or blended (web-enhanced) classes. Corporations also use this system for online corporate training. Dave Horst, an MCC Industrial and Commercial Trades faculty member, will demonstrate the benefits of implementing online coursework as part of a curriculum with retention of material and supplemental learning for students in the classroom setting.

## Health Careers

MCC Host: Peggy Dean, Emergency Management Instructor

Metropolitan Community College South Omaha Campus (SOC),  
Mahoney Building  
27th and Q St.  
Omaha, Neb.

## Electronic Health Records

Room 505

Presenters: Todd Searls, Director of Wide River TEC  
Janee Pannkuk, MCC HIT Consortia Project Director  
Elizabeth Willborn, MSN, RN, University of Nebraska  
Public Policy Center

A background and preview of what's to come. The healthcare industry is quickly becoming electronic. This presentation will include a summary of the background of how the government is assisting with the use of electronic health records in physician offices across the country and how healthcare educators are preparing the future's health IT workforce.

Wide River Technology Extension Center (TEC), Nebraska's regional extension center, was created by the Office of the National Coordinator for Health Information Technology as part of the Health Information Technology for Economic and Clinical Health (HITECH) Act to assist providers with their selection, implementation and meaningful use of certified EHR technology.

Todd Searls, Director of Wide River TEC, will provide a background about the HITECH Act and discuss the role of a regional extension center in helping providers meet meaningful use. Elizabeth Willborn, MSN, RN, from the University of Nebraska Public Policy Center, which coordinates the Wide River TEC Workforce Development Initiative, will give an overview of the awardees of the grants distributed. Janee Pannkuk, HIT Grant Administrator for MCC, will provide an overview of student data nationally, by region and within the Midwest region along with HIT program aspects in assisting student engagement to support Nebraska. MCC's Health Information Technology Program (HITP) is Nebraska's only ARRA Grant receiver to provide health information technology curriculum developed via the ONC.

## Interactive Patient Simulations Clinical Simulations

Room 505

Presenter: Kellie Clifford, Nursing Instructor

Kellie Clifford will demonstrate clinical patient scenarios using interactive simulation manikins. Learners will experience patient response, assessment and skills techniques while utilizing critical thinking skills. Clinical situations range from simple to complex. Features of the nursing simulators include cardiac rhythms, lung sounds, vital signs and heart sounds.

## Medical Emergencies Simulations Room 520

Presenter: Peter Landmark, Emergency Management Instructor

Peter Landmark will demonstrate different medical emergencies while manikin HAL responds and students interact in real time. This allows for dynamic responses to interventions as well as spontaneous degradation in patient presentation. This gives the learners an experience that is as close to a real live patient as is practical while also providing a safe environment for learning. HAL has a wide range of modifiable attributes including vital signs, cardiac rhythms, lung sounds, chest wall movement and eye movement, just to name a few.

## HVAC

MCC Host: Robert Boyer, Applied Technology Project Coordinator

Energy Systems Company  
602 N. 13th St.  
Omaha, Neb.

## District Heating and Cooling

Presenter: Ken Flegl, Manager of Operations

An introduction to District Heating and Cooling will include a site tour, industry video, informative information and Q&A session that will be held at Energy Systems' newest facility that features one of the largest murals in the United States painted on the east and north exterior walls.

Energy Systems delivers steam and chilled water thermal energy services to many downtown Omaha industries through a well-developed, underground pipeline system. Three industrial-grade district energy plants operate around the clock with back-up systems establishing a reliability history "Six-Nines" (99.9999 percent) for its chilled-water service. Its steam service reliability history is equally impressive.

[www.esc-omaha.com](http://www.esc-omaha.com)

## Manufacturing/Welding

MCC Hosts: Chris Beaty, Welding Technology Instructor

Valmont Industries  
7002 N. 288th St.  
Valley, Neb.

### Valmont Industries

Presenter: Sarah Hanson, Human Resources

Valmont Industries: Wherever you live, whatever you do, chances are Valmont is part of your life. Lighting and traffic poles guide your way. Utility poles bring power to your home and business. Communication poles and towers enable your wireless communications. Irrigation equipment brings much-needed water to cropland while conserving fresh water resources.

Valmont Coatings is an industry leader in galvanizing, serving steel fabrication markets nationwide. With galvanizing facilities strategically located around the country, we are confident we can efficiently and professionally handle all your galvanizing needs. Hot dip galvanizing, which is one of the most effective and proven ways to protect steel from corrosion, extending both service life and appearance, will be just one of many of the manufacturing process areas that will be toured.

[www.valmont.com](http://www.valmont.com)

## Sustainable Energy

MCC Hosts: Daniel Lawse, Assistant Director  
of Campus Planning and Sustainability  
Michael Shonka, Project Coordinator  
for Sustainable Energy Technology

MCC Weatherization Training Lab  
5626 Sorensen Parkway  
Omaha, Neb.

### Sustainable Energy

Presenter: Daniel Lawse and Michael Shonka

MCC's sustainable energy programs are new additions to our Applied Technology area. The Weatherization Training Lab was set up in Spring 2011, and the Solar program was set up in Fall 2010. Come see our hands-on Weatherization Training Lab for installer training and energy auditor training. Next, tour MCC's functional solar water system heating the college's greenhouse as part of the Solar program's hands-on training. Participants will also tour Omaha's largest solar electric installation used in our Solar program in partnership with Creighton University.

[www.mccneb.edu/green/wtc.asp](http://www.mccneb.edu/green/wtc.asp)  
[www.mccneb.edu/green/solar](http://www.mccneb.edu/green/solar)

## Non-Technical Sessions

### Dream It Do It and MCC Fort Omaha Campus Tour

MCC Hosts: Cathy Brown, Event Services  
Dr. Carl Fielder, Director of Career Education

The following sessions are located at Metropolitan Community College Fort Omaha Campus (FOC) Swanson Conference Center Bldg. 22

30th and Fort  
Omaha, Neb.

#### Introduction to Dream!t Do It

Presenter: Dwayne Probyn, Executive Director  
NE Advanced Manufacturing Coalition

Dream It! Do It! partners with industry in helping students understand global challenges and education paths to obtain skills that lead to good paying careers in manufacturing and related businesses. Testimonials will be given from industry, educators and students.

#### Fort Omaha Campus and the Institute for the Culinary Arts Tour

Fort Omaha Tour Guide: Mary Ann Sofio  
ICA Tour Guide: Vieva McClure

In 1878, Fort Omaha became the headquarters for the Department of the Platte, covering territory that stretched from the Missouri River into Montana. It is perhaps best known, however, for its role in the 1879 landmark trial of Ponca Chief Standing Bear.

Fort Omaha today looks much as it did at the end of the 19th century, its integrity having been preserved by its designation as a National Register District. Its use changed through the years, until 1975 when the property was acquired by MCC. The buildings and grounds are maintained in the original 19th century architectural theme, yet the classrooms and offices have been upgraded to accommodate new technology and educational needs of the 21st century. A tour of this historic site includes a visit to the General Crook House, currently home to the Douglas County Historical Society.

Also located at the Fort Omaha Campus is MCC's Institute for the Culinary Arts facility—a state-of-the-art instructional, conference and food service venue. Take a tour of this new, \$16 million facility and see its culinary theatre, chocolate lab, fabrication lab, conference center and public bistro.

## ATEA Board of Trustees

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### **Vice President**

Dr. Rich Wagner, Dunwoody College of Technology

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Bob Wallace, Tennessee Technology Centers

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