

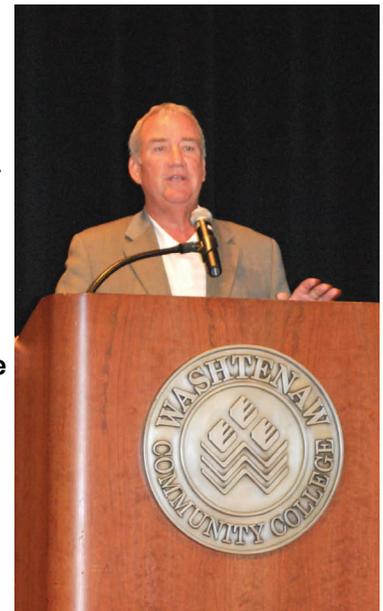
# *Greater Michigan Mechanical Industry Alliance Report Special Summer Edition 2010*

## *57th Annual United Association Instructor Training Program*



The 57th United Association Instructor Training Program returned to Michigan August 7-13th.

The UA Training Department has been preparing instructors to train new generations of United Association journeymen and women since 1956. When you choose to become a United Association instructor, you are part of a long tradition of excellence in training.



**Right—UA General President William Hite**

Curriculum was developed that incorporates the latest technological developments within our industry, as well as the fundamentals of training and teaching that are critical to the trade. The UA has 242 locals participating in this year's program with a total of 1,438 student instructors in attendance. There are 223 first time instructors, 36 earning Coordinator Certificates, 21 Associates Degrees from WCC and a total of 156 graduates who will be receiving certificates on Thursday.

New additions to the very impressive training trailers include new Plumbing Service Trailers — the Plumbing Service and Repair Demonstration Trailer and the Plumbing Service and Repair Mobil Classroom Training Trailer. They were located in the front parking lot of the Morris Lawrence Building and received a great deal of attention from instructors and visitors to the program.



***Instructional Faculty and Industry Representatives***

# Registration

Registering for classes, making changes, checking out the maps, picking up books, and most important — checking in with old friends, and making new ones, registration is definitely the busiest day during UA week.



## *Training Trailers—Learning on Wheels*



## *Medical Gas Training*



The Medical Gas Instructor course includes instruction on how to teach the codes and standards that govern correct medical gas and medical-surgical vacuum piping systems installation and testing, requirements for installer qualification, and requirements for brazer qualification in accordance with ASME Section IX.

At the end of the course, a written exam was administered. Students who successfully passed the course and exam, received the certification of a "Medical Gas Instructor of the United Association" issued by NITC—National ITC Corporation.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***

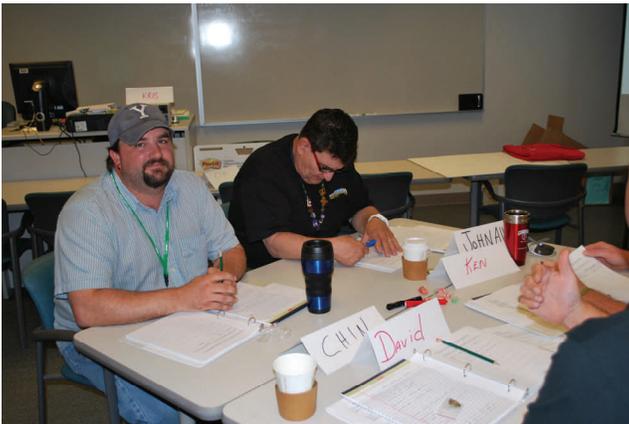


As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***



As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***

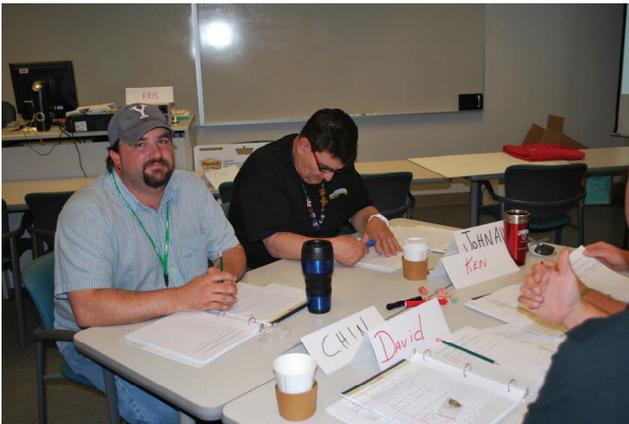


As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***



As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***



As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***



As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



## ***Methods in Teaching Gas Metal Arc Welding***



This course was designed for the UA Welding Instructor who will be teaching apprentices and journeymen the technique of Gas Metal Arc Welding (GMAW). Classroom instruction on how and what to teach was presented. Hands on welding instruction was given on plate and pipe in all positions. Specialized applications of flux core, metal core, and aluminum and pulse mig was also presented.



## ***Geothermal Certification/ Training***

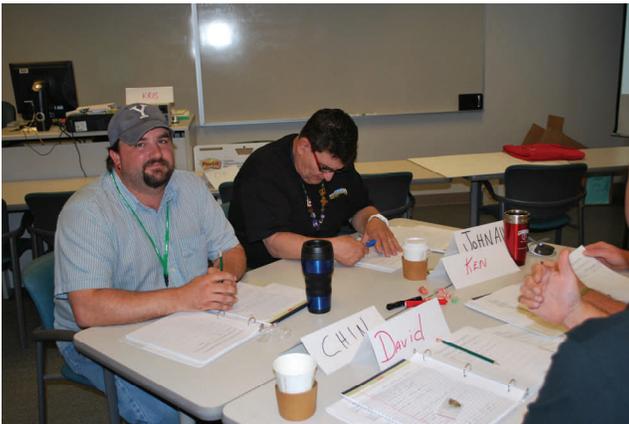


As geothermal heat pumps capture more of the HVAC market, the need for competent installers' increases as an integral part of the growing geothermal industry. Recognizing this need, the UA has teamed up with the International Ground Source Heat Pump Association (IGSHPA) to bring this technology to its members. This training session, designed specifically for the UA, gave the necessary skills to train fellow local members in this exciting technology.

This training allows your local union members to become part of the effort in bringing energy independence and environmental security to our nation by installing this renewable space conditioning system. At the completion of this training program and the passing of the required exam, a card and certificate was issued to the student instructor certifying them as an UA/IGSHPA trainer installer.



## ***Planning and Teaching Effective Lessons I***



This course builds on UA Instructors' previous learning, providing new experience-based learning, and practice. Participants deepened their knowledge of lesson planning by focusing on writing learning objectives. They also learned about and practiced presenting new material effectively and facilitating student participation, as well as the basics of designing progress assessments for use in their teaching. UA instructors

enrolled in this course brought course materials for one course they plan to teach in the coming year.



# Lunchtime

Providing lunch for the those in attendance is always an event.



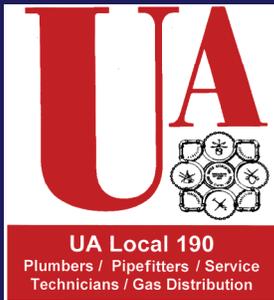
# Greater Michigan Mechanical Industry Alliance Report



Sandra L. Miller, President  
Greater Michigan PMC  
58 Parkland Plaza  
Suite 600

Ann Arbor, MI 48103  
734-665-4681

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



Bryce Mitchell, Business Manager  
UA Local 190—Plumbers /  
Pipefitters / Service  
Technicians / Gas Distribution  
7920 Jackson Road  
Ann Arbor, MI 48103  
734-424-0962  
[www.ua190.org](http://www.ua190.org)

Special Summer Edition 2010

## *Another Successful Program for the UA ITP*

What an amazing week this has been. We know with the incredible curriculum of the UA Instructor Training Program that it has definitely been an educational one!

Congratulations to UA General President William Hite on the remarkable program here at WCC.

Congratulations, also, to the UA Training Program. Under the leadership of UA Director of Training Mike Arndt (**pictured right**) this continues to be the most successful program in the construction industry. Also, great job to the UA Training Staff, we applaud the remarkable job that they do.



We hope you have a safe trip home and that we'll see you again next year.

**Bryce Mitchell, Business Manager UA Local 190**     **Sandra Miller, President Greater Michigan PMC**



Go to  
[www.greatermichiganpmc.org](http://www.greatermichiganpmc.org)  
UA - UA Training and view thirteen years of  
UA Training Program pictures