

MONROE COUNTY COMMUNITY COLLEGE

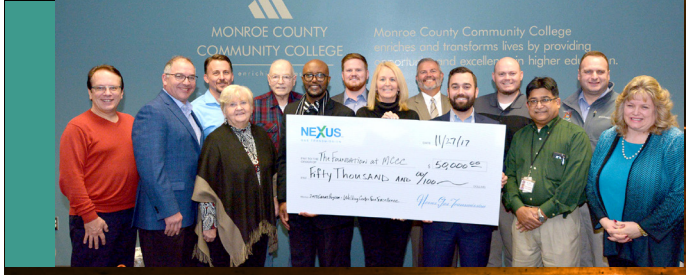
TECH UPDATE

NEWS FROM THE APPLIED SCIENCE AND
ENGINEERING TECHNOLOGY DIVISION

www.monroeccc.edu

VOLUME 14 | ISSUE 1

SPRING 2018



Grant Purchases New Equipment for MCCC Welding Program

INSIDE

MCCC Receives Grant from Nexus to Fund Additional Equipment for Welding Program

Monroe County Community College welding technology students will benefit from equipment purchased with a \$50,000 donation from NEXUS Gas Transmission.

The donation, presented in the form of a check at a regular meeting of the MCCC Board of Trustees in late November, will pay for the purchase of equipment for the college's welding lab that will result in more efficient use of class time by easing limitations to equipment access and improving the overall quality of instruction.

Equipment to be purchased will include:

- An augmented arc welding simulation system that uses augmented reality technology to improve the efficiency and economy of classroom education for beginner and intermediate-level students;
- A pipe beveller that allows welders to set the beveling angle progressively between 20 and 55 degrees;
- A transportable pipe beveller that produces high-quality bevels in 45

seconds without flames or sparks;

- A welding positioner that features a unique tilting base for added job flexibility;
- A Saddle-Miter Pipe Cutter and modular stand kits; and
- Various "fixturing" pieces to enable the holding and positioning of work pieces in the welding booths, allowing for better setup and practice on pipe and plate weldments.

MCCC's associate of applied science degree with specialization in welding technology program parallels the highly technological demands of industry. Virtually all modern production welding practices are covered. Students are prepared for many welding-related careers, including welding inspection, sales, service, design, maintenance and engineering. The college offers state and American Welding Society welder certification testing. In addition to associate of applied science degree, MCCC offers two levels of certificate programs in welding. The basic certificate is oriented toward

developing those skills required for entry level jobs in the welding field. The advanced certificate is also a skills-intensive program but takes students through higher-level skill proficiency utilizing additional welding procedures and applications.

"We are so grateful that NEXUS has made this donation to our welding program," said Josh Meyers, executive director of The Foundation at MCCC. "Through this grant, students will gain access to cutting-edge equipment and hardware that will allow them to continue to meet and exceed the expectations of the welding industry."

"We value Monroe County Community College's role in educating and training the regional labor force," said NEXUS Spokesman Adam Parker. "MCCC has a strong reputation for attracting and retaining the most talented students and we are proud to support their efforts. Our investment today in MCCC's welding program is rooted in our commitment to help build a highly skilled employee base in communities where we work and operate."



40 STUDENTS AND COMMUNITY MEMBERS JOURNEY TO CHICAGO FOR FABTECH

In November, the Applied Science and Engineering Technology Division of Monroe County Community College sponsored a day trip to FABTECH, North America's largest metal forming, fabricating, welding and finishing event, which was held at Chicago's McCormick Place. The trip was made possible with funding from MCCC's Foundation Enhancement Grant Program. Nearly 40 students and community members participated in the trip, which was led by Marty Dubois, assistant professor of mechanical engineering technology, Stephen Hasselbach, instructor of welding, and Mike Reaume, CAD Technician/Perkins specialist.

WELDING PROGRAM DONATES STUDENT-CREATED FIRE PIT

Monroe County Community College's welding technology program donated a fire pit in October to the Frenchtown Fire Department that was designed and fabricated by students in the program.



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WELDING TECHNOLOGY

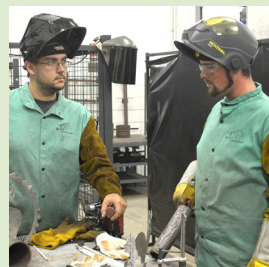
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X-TECH

CAREER EXPLORATION

325 High School Students Participate in X-Tech Open House

In October, 325 high schools students participated in X-Tech, the annual open house for the Applied Science and Engineering Tehnology Division. Students from each of the following high schools were represented: Dundee, Jefferson, Mason, Summerfield, Whiteford and Bedford. Monroe Youth Opportunity students from the Monroe County Intermediate School District were also in attendance. In addition to highlighting all the programs offered by the ASET Division, X-TECH also included a STEM – science, technology, engineering and math – session on “Women Who Weld” presented by Samantha Farr (right), the founder of Farr Side, a planning and economic development firm in Detroit, who has been a welder for 4 years and holds a master’s degree in urban planning from the University of Michigan.



ASET HOSTS 100 AT SOLIDWORKS USER GROUP MEETING



In October, the Applied Science and Engineering Technology Division hosted more than 100 SOLIDWORKS users at the eighth-annual Southeast Michigan and Northwest Ohio SOLIDWORKS User Group meeting. SOLIDWORKS is three-dimensional, parametric modeling software that is widely used in mechanical design and engineering applications. There are more than 28,000 educational institutions teaching the software in 80 countries and more than 260 SolidWorks user groups worldwide.

“Not only is the user group a venue for attending industry-led presentations, it also provides individuals with an interest in design to network with students, local employers, entrepreneurs and professional designers,” said Dr. Dean Kerste, professor of mechanical design technology and the leader of the Southeast Michigan and Northwest Ohio user group.

MCCC has been hosting the user group for five years and each meeting continues to draw more interest.” In addition to several design presentations, the meeting also had many vendors displaying their services and products. Participating vendors included DASI Solutions, Fisher Unitech, FARO, and Smooth Logics. Kerste said “A new addition to this meeting was having Detroit Stoker Company, a local employer, present and display how they utilize SOLIDWORKS software in their workplace.” The user group meeting is free and open to students, teachers, designers, engineers, employers and anyone with an interested in SOLIDWORKS and the mechanical design industry. For more information regarding future meetings, please contact Kerste at dkerste@monroecc.edu.

MCCC Participates in TRENDS Conference; Hasselbach Presents on Welding Program Articulation

In October, 21 participants from all the state-approved programs at MCCC attended a Trends in Occupation Studies Conference in Detroit. Trends is a conference designed by faculty for faculty and staff who are passionate about career and technical community college education. Many sessions were held on best practices, including programmatic round table discussions. Stephen Hasselbach, welding instructor, presented “Welding SENSE Articulation” on Friday morning for both secondary and post-secondary instructors.

STEM LAB ON WHEELS



In late September, the Applied Science and Engineering Technology Division brought in a STEM – science, technology, engineering and math – mobile lab for students and instructors to see the latest technology utilized in such labs, such as fluid power to thermodynamics.



DTE ENERGY REPRESENTATIVE VISITS WITH ELECTRONICS STUDENTS TO DISCUSS JOB POSSIBILITIES AT DTE ENERGY

Jennifer Wells, client relations consultant at DTE Energy, presented to students in MCCC's Circuit Analysis course about employment opportunities at the company, which is looking to hire 300 electrician and maintenance technicians in the next 5 years. Students learned about the history of DTE Energy, as



well positions that are presently available and those coming up in the near future. Like a lot of companies, DTE Energy has an aging workforce that is approaching retirement age. Students were encouraged to visit the DTE Energy website and explore the possibilities for employment.



ASET Division Hosts American Nuclear Society Meeting

The Applied Science and Engineering Technology Division hosted an American Nuclear Society meeting. The event was organized by ASET alumnus Julie Beste-Waltz. The ANS group also toured the Career Technology Building and viewed the extensive exhibit housed in the building that details the history and importance of the Enrico Fermi Atomic Power Plant (Fermi 1). At the time it began operation in the mid 1960s, Fermi 1 was the world's largest liquid-metal cooled, fast breeder reactor.

AROUND THE ASET DIVISION

Welding Fabrication, formerly TECH-296 – approved by College Curriculum Committee as WELD-109



Dean, Parmeshwar (Peter) Coomar Named Michigan Occupational Deans Administrative Council Treasurer

Our purpose as the Michigan Occupational Deans Administrative Council is to promote and support community college education for the state of Michigan.

Cameron Albring named Michigan Educator Apprenticeship and Training Association Vice Chairperson

The Michigan Educators Apprenticeship Training Association is a non-profit organization devoted to providing a forum for the professional development of Secondary and Post-Secondary Educators and other individuals involved in providing apprenticeship and work-based education. MEATA will be hosting its Spring 2018 Apprenticeship Conference in Traverse City, Michigan



on May 22-25, 2018. For more information on MEATA meetings, conferences and apprenticeship events, please email Cameron Albring at calbring@monroecc.edu

MCCC Applied Science and Engineering Division in Search of a Full-time Construction Instructor, Full-time CNC/Machining Instructor and Full-time Automotive Engineering Instructor

The division is also seeking part-time instructors in tool and die design, industrial plumbing and pipefitting, and welding. For more information on these great opportunities, please email Parmeshwar (Peter) Coomar at pcoomar@monroecc.edu or contact him directly at (734) 384-4209.

ASET Division Holds Automotive Recruiting Event for High School Students

Students observed a Roush Racing Mustang doing a demonstration and were able to measure horsepower and torque on a Mustang chassis



dynamometer. The ASET Division is in its final commissioning stage of its new engine dynamometer.

MCCC's Applied Science and Engineering Division Represented at Roush Open House, Driver Autograph Session and Car Cruise-In



L-R Mike Reaume, Jack Roush and Parmeshwar (Peter) Coomar

PROGRAM SPOTLIGHT

APPRENTICESHIP IN A DAY A WORKSHOP

Beyond the "why" and into the "how" of registered apprenticeship!

Work with partners to create an apprenticeship program in one day!

Opportunity to leave with DOL-signed, registered apprenticeship standards!

FOR MORE INFORMATION

Janene Erne
janene.erne@winintelligence.org

The Advance Michigan Center for Apprenticeship Innovation is made possible through a Department of Labor-funded partnership between the Workforce Intelligence Network and several local educational institutions. Auxiliary aids and services are available upon request to individuals with disabilities.

ASET Division Spring and Summer 2018 Course Offerings – Classes begin May 7, 2018!

Section Name		Credits	Billing Credits	Short Title	Start Time	End Time	Days
SP2018	AST-101-01	3	4	Intro to Automotive Service	6:00 PM	8:55 PM	MW
SP2018	AST-103-01	4	5	Electrical Systems II	5:00 PM	8:25 PM	MW
SP2018	AST-130-01	4	7	Heating and Air Conditioning	5:30 PM	9:55 PM	TUTH
SP2018	AUTO-201-01	3	4	Automotive Digital Electronics	5:00 PM	9:55 PM	MW
SP2018	CONM-107-01	3	4	Surveying	6:30 PM	9:25 PM	TUWTH
SP2018	CONM-120-01	3	4	Intro to AutoCAD for Archtute	5:30 PM	9:25 PM	MW
SP2018	ELEC-211-01	3	3	Med Voltage Power Dist Systems	5:30 PM	8:55 PM	TUTH
SP2018	ELEC-214-01	2	2	National Electrical Code	8:30 AM	12:15 PM	TUTH
SP2018	MDTC-116-01	3	3	Plant Layout/Material Handling	4:30 PM	7:55 PM	W
SP2018	MECH-112-01	3	4	Pneumatics	5:00 PM	9:55 PM	TH
SP2018	NUET-103-01	2	3	PT & MT	5:30 PM	9:25 PM	TUW
SP2018	NUET-104-01	2	3	Visual Testing	5:30 PM	9:25 PM	TUW
SU2018	NUET-205-61	2	3	Nuclear Plant Experience	8:00 AM	5:00 PM	MTUWTHF
SP2018	WELD-216-01	4	6	Basic Pipefitting	5:00 PM	9:25 PM	MTUWTH
SU2018	WELD-240-01	4	6	AWS Qualif/Cert-Entry Level	5:00 PM	9:25 PM	MTUWTH
SU2018	WELD-250-01	4	6	AWS Qualif/Cert-Adv Level	5:00 PM	9:25 PM	MTUWTH



**MONROE COUNTY
COMMUNITY COLLEGE**

enriching lives

QUESTIONS ABOUT THIS PUBLICATION

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