MONROE COUNTY COMMUNITY COLLEGE

TECH UPDATE

NEWS FROM THE APPLIED SCIENCE AND ENGINEERING TECHNOLOGY DIVISION

www.monroeccc.edu

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MAKERSPA©E

MCCC will be providing an open, collaborative environment (shop and idea laboratory) where community members and students can gather to learn, experiment and create objects and ideas with the goal of improving the community we live in and making our living standards better. This tinker space will be in the Career Technology Center (T Building) on the campus of MCCC. Orientation, workshops and camps will be scheduled soon.





EQUIPMENT LIST:

- 1. Modela MDX-50 CNC
- 2. Epilog Helix Laser CNC
- 3. BOFA Fume Extractor
- 4. Stratys F170 3D printer
- 5. SCA support material removal station
- 6. Electronics workstations
- 7. Formlabs 3D printer station
- 8. Titan vinyl cutter
- 9. Computer set-up

ASET Hires Part Time Makerspace Technician

Maxwell Haar will serve as the college's Makerspace Technician. Haar has been in the engineering field since high school and graduated from Owens Community College with a degree in electrical engineering technology.



MCCC Welding brings the HEAT to Grand Rapids **Skills USA** Welding Competition

MCCC welding technology students took home seven medals in the Spring at the SkillsUSA Leadership and Skills Conference in Grand Rapids, Mich. To compete in this year's event, each MCCC student participating had to submit a resume, take a written exam and complete welding projects within a prescribed time limit.



Dalton Benner of Monroe earned silver for his performance in the Gas Tungsten Arc Welding post-secondary category. He has completed his second year in the associate degree in welding technology program. Michael Clark of Erie earned bronze for his performance in Gas Metal Arc Welding post-secondary category. He recently completed the AWS QC11 advanced level welder certification program. Bailey Gillenkirk of Newport earned silver for his performance in the Shielded Metal Arc Welding post-secondary category. He is nearing the completion of an associate degree in welding technology. Kyle Haener of Newport earned silver for his performance in the Gas Metal Arc Welding post-secondary category. He recently graduated with an associate of applied science degree in welding technology. Thomas Jennings-Boldt of Ida earned bronze for his Shielded Metal Arc Welding post-secondary category. He recently completed the AWS QC11 advanced level welder certification program.

Two competitors were repeat award winners from last year's competition: Wyatt Liedl of Dundee earned bronze for his performance in the Gas Tungsten Arc Welding post-secondary category. He has completed his second year working toward an associate degree in welding technology. Tony Simko of Monroe earned bronze for his performance in the Overall Welding post-secondary category. The Overall Welding category is the most rigorous of the welding





competitions because it includes various welding processes across multiple projects. He has completed his second year and is enrolled in the associate degree in welding technology program.

Several corporate sponsors were instrumental in assisting the team with support for participating in this year's competition, including Alro Steel, Baker's Gas & Welding Supplies Inc., DTE Energy, Rousch Technologies and Ventower Industries, and MCCC.

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14 Airport High School Students participate in HS welding program on the campus of MCCC

In January, Airport High School began their very first high school welding class at MCCC's Career Technology Center. AHS welding teacher Chase Dowler was hired to implement the high school's new CTE welding program for its students. Superintendent John Krimmel commended Dowler's dedication and commitment to the program.





Technology Division at MCCC hosted its 10th meeting of the Southeast Michigan and Northwest Ohio SOLIDWORKS User Group earlier this year at the Career Technology Center. The 115 participants included students, designers and employers. SOLIDWORKS is a 3D parametric modeling software that is widely used in mechanical design and engineering applications. Currently, there are more than 30,000 educational institutions teaching SOLIDWORKS in 80 countries. There are also greater than 300 SOLIDWORKS user groups worldwide with 15,000 active members. "The user group meetings are always a hit. The meetings not only provide the opportunity to attend technical training sessions, they are also a great way to network with others who have an interest in the SOLIDWORKS software and the design and engineering field," said Dr. Dean Kerste, professor of mechanical design technology and SOLIDWORKS User Group leader. "We had three great presentations at this event, which included SOLIDWORKS Sheet Metal, SOLIDWORKS PDM and Selecting the Hardware that is Right for SOLIDWORKS."

The annual conference is an opportunity for SOLIDWORKS users to network

Congratulations to Jacob Cociuba, Jared Roach, and Daniel Baker for successfully passing the Certified SOLIDWORKS Professional examination.

with colleagues and peers to see how others are using the software in their workplace. It is free and open to students, teachers, designers, engineers, employers and anyone with an interest in SOLIDWORKS. For more information regarding the next meeting on Tuesday, October 15, 2019, please contact Dr. Kerste at dkerste@ monroeccc.edu



The ASET Division recently held its third manufacturing Boot Camp consisting of of five full-day Saturday sessions in CAD, Welding, Electronics, Robotics and Automation, and Machining. During the Boot Camp, 14 students participated from Monroe, Bedford and Wayne counties, and were

introduced to the various professional trades programs on campus with hands-on activities in each respective area. Their experience also included Friday evening sessions in resume writing, interviewing skills and basic computer classes to culminate their experience.

Dubois training at the Amatrol Technical Training Institute

Marty Dubois, associate professor of mechanical engineering, traveled to the Amatrol Technical Training Institute in Jeffersonville, Ind. for advanced training in the use of the Amatrol T5552 Process Controls Trainer. The course was an opportunity for professional development, as well as familiarization with Amatrol learning systems and methodologies. MCCC utilizes the T5552 process controls training system for ELEC 141, Introduction to Automation and Process Controls.

The week-long training course in was designed for college, industry, vocational and university instructors who teach basic concepts and skills of level and flow in process control. Topics included instrument tags, P&ID diagrams, electronic loop controllers, final control elements, liquid level measurement and automatic control methods (proportional, integral and derivative), loop component calibration and control loop tuning. The new information, skills and best practices

will be used to continue to improve MCCC's existing courses.



2019 Michigan Apprenticeship Educators and Training Association (MEATA) Conference

In May, Cameron Albring, ASET administrative assistant and MEATA vice president, attended and co-presented during a three-day conference in Grand Rapids. Attendees included local and state elected officials, business and industry, staff from the U.S. Department of Labor, Office of Apprenticeship, local unions, and community college and high school CTE teachers and instructors. The MEATA Executive Committee dug into the details of offering non-traditional apprenticeships in health, information technology, public services and more, while maintaining the high standards set in traditional manufacturing and construction apprenticeships. The conference offered opportunities, ideas and strategies about new programs, prospects, and success stories to fuel the attendees inspiration and inform them about exciting work in the state with apprenticeships.

Session topics included:

- Culinary Apprenticeships -What's Cooking?
- Apprenticeships in Healthcare



- National Occupational Frameworks for Competency-Based Apprenticeships
- WorkHands: Blue Collar Tech for Apprenticeship & Professional Trades
- To Be or Not to Be An Intermediary
- Developing the Pipeline: Innovations in Pre-Apprenticeship

Additionally, attendees from the conference were able to participate in a Founders Brewery Company tour

in Grand Rapids to learn more about its Industrial Maintenance Technician Registered Apprenticeship Program. Founders Brewing Co. has expanded its beer production to become the 14th largest brewer in America, handily claiming the title of Michigan's top brewery.

For more information on apprenticeships, please contact Cameron Albring at calbring@monroeccc.edu or 734-384-4112.



Elliott and Hasselbach Attend Ohio HTEC Educators Event

Troy Elliott, assistant professor of product and process technology, and Stephen Hasselbach, welding instructor, attended the Ohio Haas Technical Education Center Network one-day conference on advanced manufacturing.

The goal of the conference and the HTEC Network is to provide students with a relevant, high-tech and hands-on educational experience. The network strives to graduate work-ready CNC machinists, programmers and engineers prepared for today's industrial employers and the manufacturing challenges of the future. Elliott and Hasselbach had the opportunity to meet manufacturing experts, learn about the Hass support that is available, and network with educators throughout the region.

ASET FACULTY AND STAFF RECEIVE CNC TRAINING

The ASET Division has recently acquired an Axiom AR8 Elite CNC wood router for use with a proposed STEM Guitar Project. The project proposed by Dean Kerste, lead faculty for Mechanical Design Technology, would involve students from several different tech programs, including teaching them skills from guitar design theory, modeling of the guitar in SolidWorks, programming and operating the CNC router, hands-on work working and assembly, guitar electronics theory and wiring, and more. Students would design and build their own electric guitar, which they would keep and take home after the end of the course. Kerste, along with fellow faculty member Lisa Schaller and support staff member Mike Reaume, attended training for the CNC router at Woodcraft of Toledo and look forward to incorporating the use of this new machine for various class projects.



LOCAL SCHOOLS TOUR CTC TO LEARN ABOUT STEM CAREERS









In May, 60 fifth and sixth graders toured MCCC's Career Technology Center and received hands-on equipment demonstrations in welding, electric/hybrid vehicles and 3D modeling/design.

Detroit Maker Faire Booth

MCCC welding student Katherine Hehl (below) represented the college at the Detroit Maker Faire's Lincoln Electric Welder demonstration booth on Saturday, July 27. MCCC Makerspace technician Maxwell Haar also worked the Maker Faire at the same booth on Sunday, July 28.



TECH OF THE FUTURE > MCCC students learn hands-on about civil engineering equipment

Monroe County Community College students took a step into the future as part of a first-time presentation on modern equipment used in civil engineering.

During the demonstration, Eric Arquette, adjunct professor, invited students to get a hands-on feel for tools used in the surveying field beginning 80 years ago through today.

Arquette, survey crew chief for Spicer Group Inc., an engineering, surveying, planning and architectural firm with offices in Dundee, collaborated with the company to bring in several types of professional equipment — including a drone — used for measurements and land mapping.

"These are some of the things we're going over in the classroom," Arquette said. "It's not often that we get all of this type of equipment together at once."

Nearly two dozen students and spectators — including representatives from the Michigan Department of Transportation — joined for the demonstration held Tuesday afternoon at the Career and Technical Education Center, 1555 S. Raisinville Rd.

Beginning with close to century-old equipment, Arquette showed students how to use a theodolite, a surveying



instrument that calculates angles and distance with measuring tape. Each of the measurements would have to be computed by hand using specific mathematical formulas.

Moving to the newer equipment, Arquette showed off tools that digitally calculate measurements using GPS technologies, LiDAR and aerial images, along with other modern upgrades.

"All of this equipment is used to collect information for mapping, design and calculating quantities," Arquette said. "It has a lot of purposes. They're very much more accurate than how things used to be done."

The main event was Spicer's drone, operated by Jeremy Dancer, a land

surveyor based in the company's Saginaw Office. Dancer explained how drones can be programmed to follow specific flight missions and capture photographs at specific intervals while in the sky.

With a budding drone program at MCCC, the Spicer crew aimed to introduce students to a new career pathway that includes drone operations and other up and coming technology. David Brunelle, 21, a construction management student, said the presentation helped to illustrate some of the themes he's learned while in the classroom.

With hopes of one day heading a construction site, Brunelle said the course overall has taught him about the first steps in the construction process, which involves surveying the land.

"All of these devices we saw, we've been going over them throughout class so far," said Brunelle of Lincoln Park, formerly of Monroe. "I have to give Eric credit for what he's doing for us because it's his first time teaching, and he's doing a really good job."

This story originally published in The Monroe News – it has been reprinted with permission.

BY CAITLIN TAYLOR ctaylor@monroenews.com

America's Promise Catalyst is a project funded by the U.S. Department of Labor's Employment and Training Division managed by the Workforce Intelligence Network for Southeast Michigan (WIN) and its partners. Advance Michigan Catalyst aims



to train unemployed and underemployed residents of Southeast Michigan to prepare them for careers in industrial technicians and engineers.

ASET Hosts Second NSF ATE Grant Welding Workshop with 40 State Continuing Education Clock Hours (SCECHs)

This summer, Parmeshwar (Peter) Coomar, dean of the ASET Division and Principal Investigator/PI, and Stephen Hasselbach welding instructor and the college's co-principal investigator of the NSF ATE grant conducted a six-day Train the Trainer for Future Welding instructors/teachers workshop. The workshop was the second in a series funded through the Advanced Welder Education Grant from the National Science Foundation. The workshop included the American Welding Society (AWS) SENSE QC-10 Welding Certification process, SENSE school registration process, hands-on demonstrations and welding lab projects. Each participant was eligible to earn QC-10 certification upon successful completion of the workshop. Additionally, there were breakout sessions to work on implementation scenarios for each respective school program. Core elements of certification modules were emphasized as well as teaching practices to ensure student success. Articulation pathways were also discussed and implemented for students toward next steps to advanced welder certification, or AWS QC-11, offered at Monroe County Community College.

Those in attendance for this workshop were from Airport High School, Roush Industries, St. Clair County Regional Educational Service Agency, Focus Hope – Detroit and Penta Career Center (Ohio), and MCCC. Topics and presenters included: ToolingU with Krista Maurer, NCCER presentation with Steve Houston from ATP, Lincoln Electric with Travis Burkey, Applied Technology Systems with Michael McAlvey, and Katrina Pelow with Goodheart & Wilcox Publishers.

A third training workshop for 2020 is currently in development.



More information about the grant can be found on the ASET Division area of the MCCC website, www.monroeccc.edu





NSF ATE Grant Due #1801078

ASET Division Fall 2019 Course Offerings - Classes begin August 28, 2019!

Section Name	Credits	Billing Credits	Short Title	Start Time	End Time	Days	Section Name	Credits	Billing Credits	Short Title	Start Time	End Time	Days
AST-101-01	3	4	Intro to Automotive Service	8:00 AM	9:20 AM	MTUW	NUET-102-01	3	3	Introduction to NDT	5:30 PM	9:45 PM	MTU
AST-101-02	3	4	Intro to Automotive Service	8:00 AM	11:55 AM	F	NUET-105-01	2	3	Radiography-Level 1	5:30 PM	9:45 PM	MTU
AST-102-01	4	5	Electrical Systems I	6:00 PM	8:25 PM	MW	NUET-130-01	3	4	Plant Systems I	7:00 PM	8:55 PM	TUTH
AST-105-01	3	4	Engine Theory	5:30 PM	9:25 PM	TUTH	QSTC-115-L1	3	3	Statistical Process Control			TBA
AST-202-01	4	7	Engine Performance I	6:00 PM	9:25 PM	MW	QSTC-120-L1	3	3	Intro to Quality Systems			TBA
AUTO-101-01	4	6	Internal Combustion Engines	5:30 PM	9:25 PM	TUTH	QSTC-150-B1	3	4	Introduction to Metrology	5:00 PM	6:55 PM	MW
AUTO-104-01	3	4	Automotive Ignition Systems	6:00 PM	7:55 PM	MW	WELD-100-01	4	6	Intro to Welding Processes	2:00 PM	4:55 PM	TUTH
AUTO-107-01	4	6	Automotive Chassis Units	6:00 PM	8:55 PM	TUTH	WELD-100-02	4	6	Intro to Welding Processes	5:00 PM	7:55 PM	MW
CONM-100-01	3	4	Intro to Design/Construction	5:30 PM	7:25 PM	MW	WELD-100-03	4	6	Intro to Welding Processes	7:30 AM	8:55 AM	MTUWTH
CONM-101-01	3	4	Materials of Construction	6:00 PM	7:55 PM	TUTH	WELD-101A-01	2	3	Introduction to GMAW	5:30 PM	9:25 PM	TUTH
CONM-160-01	3	3	Green Building & LEED System	8:00 PM	9:25 PM	TUTH	WELD-101A-02	2	3	Introduction to GMAW	8:00 AM	3:55 PM	S
CONM-202-01	3	3	Construction Safety	7:30 PM	8:55 PM	MW	WELD-101B-01	2	3	Basic SMAW	5:30 PM	9:25 PM	TUTH
CONM-242-01	3	3	Construction Documents and Law	5:00 PM	7:55 PM	TU	WELD-101B-02	2	3	Basic SMAW	8:00 AM	3:55 PM	S
ELEC-125-01	3	4	Fundamentals of Electricity	10:00 AM	11:55 AM	MW	WELD-102-01	6	8	Advanced SMAW	5:30 PM	9:25 PM	TUTH
ELEC-125-02	3	4	Fundamentals of Electricity	1:00 PM	2:55 PM	MW	WELD-102-02	6	8	Advanced SMAW	8:00 AM	3:55 PM	S
ELEC-125-03	3	4	Fundamentals of Electricity	5:00 PM	6:55 PM	TUTH	WELD-102A-01	2	3	Multi-Pass Arc Welding	5:30 PM	9:25 PM	TUTH
ELEC-129-01	4	6	AC/DC Motors and Controls	7:30 PM	10:25 PM	MW	WELD-102A-02	2	3	Multi-Pass Arc Welding	8:00 AM	3:55 PM	S
ELEC-130-01	3	4	Introduction to PLCs	5:00 PM	6:55 PM	TUTH	WELD-102B-01	2	3	Code Welding Techniques	5:30 PM	9:25 PM	TUTH
ELEC-133-01	4	6	Circuit Analysis	4:00 PM	6:55 PM	MW	WELD-102B-02	2	3	Code Welding Techniques	8:00 AM	3:55 PM	S
ELEC-137-01	4	6	Microprocessors	7:00 PM	9:55 PM	TUTH	WELD-102C-01	2	3	Multi-Pass Pipe Fillet Welding	5:30 PM	9:25 PM	TUTH
ELEC-156-01	3	4	Intro to Renew Energy Systems	2:00 PM	5:55 PM	TH	WELD-102C-02	2	3	Multi-Pass Pipe Fillet Welding	8:00 AM	3:55 PM	S
MATH-160-B1	2	3	Math Applications in Eng Tech	3:00 PM	4:25 PM	TU	WELD-103-01	3	4	Weldment Eval & Testing	7:00 PM	8:55 PM	MW
MATL-101-01	3	4	Industrial Materials	10:00 AM	11:55 AM	MW	WELD-104A-01	2	3	Introduction to GTAW	5:30 PM	9:25 PM	TUTH
MATL-101-01	3	4	Industrial Materials	7:00 PM	8:55 PM	TUTH	WELD-104A-02	2	3	Introduction to GTAW	8:00 AM	3:55 PM	S
MDTC-109-01	2	2	Mechanical Blueprint Reading	5:00 PM	6:55 PM	TU	WELD-104B-01	2	3	Introduction to GMAW	5:30 PM	9:25 PM	TUTH
MDTC-160-01	4	6	Mech Drftg & CAD I	9:00 AM	11:55 AM	MW	WELD-104B-02	2	3	Introduction to GMAW	8:00 AM	3:55 PM	S
MDTC-160-01	4	6	Mech Drftg & CAD I	9:00 AM	11:55 AM	TUTH	WELD-104C-01	2	3	GTAW-Stainless Steel	5:30 PM	9:25 PM	TUTH
MDTC-160-02	4	6	Mech Drftg & CAD I	7:00 PM	9:55 PM	TUTH	WELD-104C-02	2	3	GTAW-Stainless Steel	8:00 AM	3:55 PM	S
MDTC-180-03	3	3	Geometric Dimen-Tolerancing	1:00 PM	2:25 PM	MW	WELD-104D-01	2	3	GTAW-Aluminum	5:30 PM	9:25 PM	TUTH
MDTC-228-01	3	4	Intro to SOLIDWORKS-CSWA	1:30 PM	3:25 PM	TUTH	WELD-104D-02	2	3	GTAW-Aluminum	8:00 AM	3:55 PM	S
MDTC-220-01 MDTC-232-01	3	4	Adv SOLIDWORKS-CSWP	3:30 PM	5:25 PM	TUTH	WELD-104D-02 WELD-106-01	6	8	Basic Pipe Welding	5:30 PM	9:25 PM	TUTH
MDTC-232-01 MDTC-236-01	4	6	Rapid Prototyping	2:30 PM	5:25 PM	MW	WELD-106-02	6	8	Basic Pipe Welding	8:00 AM	3:55 PM	S
MECH-102-01	4	6	Manufacturing Processes	7:00 PM	9:55 PM	TUTH	WELD-106-02 WELD-106A-01	2	3	Pre-Pipe Welding Skills	5:30 PM	9:25 PM	TUTH
MECH-102-01 MECH-103-01	4	6	Machining Basics & CNC	9:00 AM	11:55 AM	TUTH	WELD-106A-02	2	3	Pre-Pipe Welding Skills	8:00 AM	3:55 PM	S
MECH-103-01 MECH-103-02	4	6	•	5:00 AM	7:55 PM	MW	WELD-106B-01	2	3	SMAW Pipe Welding-Uphill	5:30 PM	9:25 PM	TUTH
MECH-103-02 MECH-103-03	4	6	Machining Basics & CNC	7:00 PM	9:55 PM	TUTH	WELD-106B-02	2	3	SMAW Pipe Welding-Uphill	8:00 AM	3:55 PM	S
	3	4	Machining Basics & CNC CNC III		9:55 PM 6:55 PM		WELD-106G-01	2	3	SMAW Pipe Welding-Downhill	5:30 PM	9:25 PM	S TUTH
MECH-105-01				5:00 PM		TUTH	WELD-106C-01	2	3	SMAW Pipe Welding-Downhill	5:30 PM 8:00 AM	9:25 PM 3:55 PM	S
MECH-111-01	3	4	Introduction to Fluid Power	5:00 PM	8:55 PM	M		2	2	, ,			M
MECH-131-01	3	4	Intro Automated Manufacturing	7:00 PM	8:55 PM	TUTH	WELD-110-01	6	8	Weld Symbols/Blueprint Reading	2:00 PM	3:55 PM	M TUTH
MECH-221-01	3	4	CAD/CAM II	5:00 PM	6:55 PM	TUTH	WELD-114-01		8	GMAW and GTAW Applications GMAW and GTAW Applications	5:30 PM	9:25 PM	S
METC-100-L1	3	3	Intro to Engineering & Tech	7.00 8/1	0.55.00	TBA	WELD-114-02	6			8:00 AM	3:55 PM	
METC-170-01	3	6	Intro to Parametric CAD/CATIA	7:00 PM	9:55 PM	TUTH	WELD-115-61	12	16.67	Entry Level Welding	5:00 PM	9:55 PM	MTUWTHF
METC-220-01	4	6	Statics & Strength of Material	4:00 PM	6:55 PM	MW	WELD-115-62	12	16.67	Entry Level Welding	8:00 AM	12:55 PM	MTUWTHF
METC-234-01	4	6	Thermodynamics & Fluid Science	7:00 PM	9:55 PM	MW	WELD-215-61	12	16.67	Advanced Level Welding	5:00 PM	9:55 PM	MTUWTHF
NUET-100-01	2	3	Nuclear Industry Fundamentals	7:00 PM	8:25 PM	MW	WELD-215-62	12	16.67	Advanced Level Welding	8:00 AM	12:55 PM	MTUWTHF



MONROE COUNTY COMMUNITY COLLEGE

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