MONROE COUNTY COMMUNITY COLLEGE

TECH UPDATE

NEWS FROM THE APPLIED SCIENCE AND ENGINEERING TECHNOLOGY DIVISION

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SUMMER 2017

New Automotive Service Program

INSIDE

MCCC to Officially Launch **New** Automotive Service Program this Fall

Monroe County Community College's Applied Science and Engineering Technology Divisions will officially launch a new automotive service program this Fall Semester, which begins Aug. 23.

In fall 2016, the MCCC received formal approval from its accrediting body, the Higher Learning Commission, to begin offering an associate degree and credit certificate in automotive service technology.

According to the Bureau of Labor Statistics, the automotive service technology employment outlook in Michigan will grow by about 11 percent by the early 2020s.

"There are more than 100 licensed automotive repair facilities in Monroe County, and MCCC will become the first institution of higher learning within a 30-mile radius to provide training to the potential employees of these facilities," said Parmeshwar (Peter) Coomar, dean of MCCC's Applied Science and Engineering Division.

MCCC expects to enroll up to 20 students in the new program this Fall Semester and about 35 students annually. The automotive service program will be housed in the Career Technology Center, a $17 million, 60,000-square foot facility that opened in 2013 to deliver instruction and skills necessary to secure high-growth, high-demand and high-paying jobs. An automotive lab was built as part of the CTC to accommodate the planned new program, and nearly $200,000 worth of equipment, such as tire service equipment, an alignment machine and hoists, was installed.

The automotive service technology curriculum is designed to prepare the graduate to perform duties concerned with diagnosis, repair and maintenance of motor vehicles. The curriculum for the program conforms to the National Institute for Automotive Service Excellence/National Automotive Technicians Education Foundation (ASE/NATEF) standards. The goal is for the program to be formally accredited by ASE/NATEF by the time the first students graduate in 2-3 years. Graduates of the program can seek entry-level employment as independent and dealership service technicians, service writers, factory technical representatives, research and development technicians, and service engineers.

Automotive service technicians work on hydraulic systems (brakes and transmissions), mechanical systems (engines and steering), computer systems (modules and networks) and electrical systems (entertainment and lighting). They use various mechanical and electrical test instruments and gauges, including scan tools, oscilloscopes, pressure gauges, pneumatic tools and hand tools. The associate of applied science degree with specialization in automotive service technology is structured to

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STUDENTS, FACULTY AND STAFF ATTEND INTERNATIONAL MANUFACTURING TECHNOLOGY SHOW

In the fall, faculty, staff and students from the Applied Science and Engineering Technology Division attended the International Manufacturing Technology Show in Chicago.

One of the highlights of the show for the ASET Division group was getting a first-hand look at the latest robotics technology from FANUC America, which offers the most complete range of industry-leading products and services for robotics, CNC systems and factory automation solutions. The FANUC representatives provided demonstrations of contact-sensitive robots that are designed to work safely alongside human co-workers. They also demonstrated the integration of a robot with a laser scanner that allows for robot applications to be utilized without other complications, such as the requirement of fencing and gates. The MCCC entourage also got to witness a robot lift a sports car.

The IMTS show allowed MCCC students to witness the size and scope of the manufacturing technology world, which includes many key companies headquartered in Southeast Michigan.

The trip to the show was made possible through an Enhancement Grant from The Foundation at MCCC.

MCCC STUDENTS PARTICIPATE IN TECH CAREER DAY IN TAYLOR

Students from MCCC's Applied Science and Engineering Technology and Health Sciences divisions attended the James Maley Career and Technical Centers Career Day on January 19 in Taylor. Hundreds of students learned about technical careers in applied science and engineering technology in the areas of construction, automotive, mechanical design, welding, manufacturing and electronics, as well as careers in medicine such as nursing and respiratory therapy.

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SUMMER CAMPS LINEUP AT CAREER TECHNOLOGY CENTER ANNOUNCED

The Applied Science and Engineering Technology Division will again be hosting summer camps in the Career Technology Center, including three that are offered at no charge thanks to the support of local industry and other sponsors. Below is a list of the camps. To register, call (734) 384-4127. For more info, go to www.monroeccc.edu/summercamps.htm.

Building Construction Camp		FREE
CONM 702-81	Mon-Fri, June 19-23 B/G grades 9-12	9 a.m.-Noon T154/T171
CONM 702-82	Mon-Fri, June 19-23 B/G grades 9-12	1-4 p.m. T154/T171

Welding Camp		FREE
WELD 725-81	Mon-Fri, June 19-23 B/G grades 9-12	9:30 a.m.-Noon T 165/T169
WELD 725-82	Mon-Fri, June 19-23 B/G grades 9-12	1-3:30 p.m. T165/T169

CADDesign Camp		Cost: $24
DRFTG 732-81	Mon-Fri, July 10-14 B/G grades 8-12	9:30 a.m.-Noon T158/T156
DRFTG 732-82	Mon-Fri, July 10-14 B/G grades 8-12	1-3:30 p.m. T158/T156

Automotive Camp		Cost: $24
AUTO 723-81	Mon-Fri, July 10-14 B/G grades 9-12	1-4:30pm T178/T180

Metrology Camp		FREE
QSTC 724-81	Mon-Fri, July 10-14 B/G grades 8-12	9:30am-Noon T159
QSTC 724-82	Mon-Fri, July 10-14 B/G grades 8-12	1-3:30pm T159

MCCC Welding Instructor Receives American Welding Society Scholarship

Stephen Hasselbach, welding instructor, received a $750 scholarship from the Detroit chapter of the American Welding Society toward his postgraduate work at Ferris State University. Hasselbach was presented the award in the fall at Fabtech 2016, North America's largest metal forming, fabricating, welding and finishing event, which was held in Las Vegas in November.

Coomar, Harrill and Reaume Attend SAE Session on Electric Vehicles

On March 7, Parmeshwar (Peter) Coomar, dean of the Applied Science and Engineering Technology Division; Tom Harrill, recently retired assistant professor of electronics and computer technology; Mike Reaume, CAD technician and Perkins specialist, and five students traveled to Troy to attend a session on electric vehicles sponsored by the Society of Automotive Engineers Detroit Section Chapter.

MCCC Becomes a FANUC America-certified Education CNC Training Facility

Monroe County Community College has become a FANUC-America Certified Education CNC (computer numerical control) training facility. This means that MCCC students can earn industry-recognized credentials that qualifies them to work in manufacturing with FANUC CNC equipment.

MCCC is certified to provide FANUC's CNC programming, setup and operation training for milling and/or turning machines. This curriculum can be incorporated into existing manufacturing technology programs that also focus on English, mathematics, blueprint reading, machine processes, measuring and machine shop safety. Students are qualified throughout the education process to ensure competency via several avenues: enrollment application, testing during courses, and final comprehensive and certification exams. Initially, students are taught CNC programming using FANUC's NCGuide simulation software on a PC or FANUC's CNC education simulators for an extensive, hands-on experience. Next, students are exposed to machines incorporating FANUC CNC controls to experience the complete programming, setup and operational workflow. Throughout the process, students follow approved curriculum for milling and turning to ensure consistency, and instructors attend FANUC courses for control training to ensure quality and knowledge of the control.

"FANUC America's Certified Education CNC Training program addresses the industry need for skilled workers," said Dean Steadman, education program manager at FANUC America. "Schools that offer a FANUC Certified Education CNC program provide qualified students the best possible training for high-tech careers as operators and programmers."

Construction Management Program Featured at Home Improvement Show

Members of the Applied Science and Engineering Technology Division, including Parmeswar (Peter) Coomar, dean of the ASET Division; Brian Pease, adjunct instructor, and Mike Reaume, CAD Technician/Perkins, exhibited Home Builders Association of Monroe County Home Improvement Show in March at the Monroe Bank & Trust Expo Center. MCCC's construction management program was featured at MCCC's booth.

Tom Harrill, Assistant Professor of Electronics & Computer Technology, Retiring After 12 years of Dedicated Service

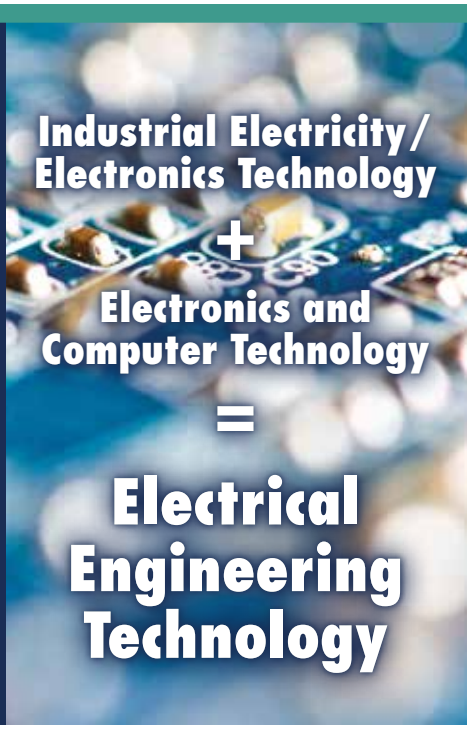
Tom Harrill, assistant professor of electronics and computer technology, will retire in June after 12 years of dedicated service to Monroe County Community College. Prior to joining MCCC, he spent more than 26 years teaching in the K-12 system. Harrill, who was instrumental in designing and fabricating the Monroe County Community College SAE (Society for Automotive Engineers) electric car with MCCC students, has been instrumental in sustenance, maintenance and development of the MCCC's associate of applied science degree in electronics technology. He expended considerable time and effort to acquire much needed resources for the college in terms of equipment and supplies for the electronics, renewable energy and automotive programs, securing grants and scholarships and garnering business and industry support. He also led efforts to get electrical vehicle chargers installed on campus. In January 2015, the College's electric car was displayed at the 2015 North American International Auto Show at COBO Center in Detroit.

Tom Harrill

MCCC is offering a Special Topics in Welding Fabrication course this spring. Above is a photo of a model of the project being built, a fire pit. Students will also take a trip to Rousch Prototyping and Fabrication. As part of the class, they will also build a 1/10th-scale roll cage and TIG weld it together.

TWO ELECTRONICS PROGRAMS MERGED INTO ONE TO BETTER SERVE STUDENTS

The electronics program offerings at MCCC have taken a new direction. There is now only one program instead of two. The new program, electrical engineering technology, is the result of many years of debate and thought on the best way to serve students interested in a career in electronics. It is a combination of the two former programs, industrial electricity/electronics technology and electronics and computer technology. The change was made because prospective students were often confused as to which program they should pursue. This new, single program will eliminate that confusion. The number of credit hours for completion has increased slightly, but the new program better reflects what is required for employment in the field of electrical and electronics technologies. MCCC's ASET Division is working with several universities on a "2+2" agreement to be able to transfer the program in its entirety toward a bachelor's degree.



KERSTE ATTENDS SOLIDWORKS WORLD 2017 CONFERENCE IN LOS ANGELES

Dr. Dean Kerste, professor of mechanical design technology, recently attended the SOLIDWORKS World 2017 Conference in Los Angeles. The conference brought together more than 5,000 engineers and designers from across the globe. It provides an opportunity to network, learn, share and discover the latest in SOLIDWORKS 3D applications and engineering technologies. The four-day agenda featured keynote presentations on the kind of technology, business and sustainability breakthroughs that inspire engineers and designers to innovate. Speakers included Anousheh Ansari, an Iranian-American engineer was the first female private space explorer and spent eight days aboard the International Space Station, and Jason Silva, host of National Geographic's hit TV series, "Brain Games." SOLIDWORKS World 2017 offered more than 200 technical training sessions and events dedicated to beginning, intermediate and advanced SOLIDWORKS users that addressed best practices for 3D CAD and innovations in mechanical design and engineering. The conference also included over 100 exhibitors displaying new technologies and products.

Students Become Certified SOLIDWORKS Professionals

MCCC mechanical design technology students Ariel Casto, Aaron Hawes, Melissa Lederman, Andy Salazar, Jacob Schmidt and Aaron Hawksley each recently received the designation of Certified SOLIDWORKS Professional (CSWP). These individuals have proven their ability to design and analyze parametric parts and moveable assemblies using a variety of complex features in the SOLIDWORKS software.

ASET DIVISION HOSTS REGIONAL SOLIDWORKS USER GROUP CONFERENCE

The Applied Science and Engineering Technology Division at Monroe County Community College hosted the Southeast Michigan and Northwest Ohio SolidWorks User Group Conference in April at the Career Technology Center. More than 100 people participated. SOLIDWORKS is 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 260 SolidWorks user groups worldwide with 15,000 active members.

School Children from 9 Monroe County Districts Visit CTC on Manufacturing

In the fall, nine local districts from Monroe County sent middle-school robotic students to various manufacturing sites around the county, and included on the tour was a special visit to the Career Technology Center at MCCC. Representatives from the Applied Science and Engineering Technology Division, including Parmeshwar (Peter) Peter Coomar, Cameron Albring, Mike Reaume, Perry Tsipis, Marty Dubois, Tom Harrill, and students Natalie Hojnacki and Alex Blake, were on-hand to answer questions about careers in the skilled trades as well as career and technical education courses that are relevant to advanced manufacturing and robotics.

MCCC STUDENT WINS GOLD MEDAL IN STATEWIDE WELDING COMPETITION

At a ceremony in Grand Rapids in April, MCCC welding student Brandon Turner was awarded a gold medal for his performance at the State Overall Welding Competition for College Post-Secondary, which was held at the SkillsUSA 45th Annual State of Michigan Leadership and Skills Conference in March. Two other students, Kyle Knabusch and Dane Diesing, represented MCCC well in the competition with a top-6 finish in the state.

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provide the technical knowledge and mechanical abilities necessary to work on the vehicles of yesterday, today and the future. The certificate program in automotive service technology covers the basic core subjects of automotive repair. Skill development and job procurement are the primary objectives of the certificate program, and all courses taken are applicable toward the associate of applied science degree.

According to Coomar, the program will offer a good segue into another level of automotive training currently offered by MCCC within the same lab space – automotive engineering technology. "Graduates of the automotive engineering technology program are prepared to perform duties concerned with design, testing and development activities in direct support of an automotive engineer," he said. "They are trained in the use of various mechanical and electrical test instruments and gauges, including engine and chassis dynamometers, road simulators, flow benches and computer-controlled data gathering devices."

The new automotive service program is coordinated by Jack Larmor, who is ASE-certified in 13 areas of competency and meets all qualifications prescribed by the NATEF. Larmor holds a master of business administration degree from Baker College, a bachelor of arts degree from Spring Arbor University and an associate of applied science degree from Mott Community College.

For more information, prospective students can contact the Admissions and Guidance Office at (734) 384-4104 or the ASET Division at (734) 384-4112.

ASET Fall 2017 Course Offerings:

Section Name	Credits	Billing Credits	Short Title	Start Time	End Time	Days
AST-101-01	3	4	Intro to Automotive Service	4:30 PM	6:25 PM	MW
AST-101-02	3	4	Intro to Automotive Service	8:00 AM	9:15 AM	MTUWTH
AST-101-03	3	4	Intro to Automotive Service	8:00 AM	11:55 AM	F
AST-103-01	4	5	Electrical Systems II	5:00 PM	7:25 PM	TUTH
AST-105-01	3	4	Engine Theory	7:00 PM	8:55 PM	TUTH
AST-120-01	4	6	Brake Systems	6:30 PM	9:25 PM	MW
AST-125-01	4	7	Steering and Suspension	5:00 PM	8:25 PM	MW
AST-202-01	4	7	Engine Performance I	6:30 PM	9:55 PM	MW
AUTO-101-01	4	6	Internal Combustion Engines	7:00 PM	9:55 PM	TUTH
AUTO-104-01	3	4	Automotive Ignition Systems	6:30 PM	8:25 PM	MW
AUTO-107-01	4	6	Automotive Chassis Units	5:00 PM	7:55 PM	MW
CONM-100-01	3	4	Intro to Design/Construction	5:30 PM	7:25 PM	TUTH
CONM-101-01	3	4	Materials of Construction	5:30 PM	7:25 PM	MW
CONM-120-01	3	4	Intro to AutoCAD for Archture	7:30 PM	9:25 PM	MW
CONM-160-01	3	3	Green Building & LEED System	6:00 PM	8:55 PM	TU
CONM-202-01	3	3	Construction Safety	7:00 PM	9:55 PM	TH
ELEC-125-01	3	4	Fundamentals of Electricity	10:00 AM	11:55 AM	MW
ELEC-125-02	3	4	Fundamentals of Electricity	1:00 PM	2:55 PM	MW
ELEC-125-03	3	4	Fundamentals of Electricity	5:00 PM	6:55 PM	TUTH
ELEC-125-04	3	4	Fundamentals of Electricity	7:00 PM	8:55 PM	MW
ELEC-129-01	4	6	AC/DC Motors and Controls	7:00 PM	9:55 PM	MW
ELEC-130-01	3	4	Introduction to PLCs	5:00 PM	6:55 PM	TUTH
ELEC-133-01	4	6	Circuit Analysis	4:00 PM	6:55 PM	MW
ELEC-137-01	4	6	Microprocessors	7:00 PM	9:55 PM	TUTH
ELEC-156-01	3	4	Intro to Renew Energy Systems	6:00 PM	7:55 PM	MW
MATH-160-B1	2	3	Math Applications in Eng Tech	3:30 PM	4:55 PM	TU
MATL-101-01	3	4	Industrial Materials	10:00 AM	11:55 AM	TUTH
MATL-101-02	3	4	Industrial Materials	5:00 PM	6:55 PM	MW
MDTC-109-01	2	2	Mechanical Blueprint Reading	5:00 PM	6:55 PM	TU
MDTC-160-01	4	6	Mech Drftg & CAD I	1:00 PM	3:55 PM	MW
MDTC-160-02	4	6	Mech Drftg & CAD I	1:30 PM	4:30 PM	TUTH
MDTC-160-03	4	6	Mech Drftg & CAD I	7:00 PM	9:55 PM	TUTH
MDTC-226-01	3	3	Geometric Dimen-Tolerancing	4:00 PM	5:25 PM	MW
MDTC-228-01	3	4	Intro to SOLIDWORKS-CSWA	5:30 PM	7:30 PM	MW
MDTC-232-01	3	4	Adv SOLIDWORKS-CSWP	5:00 PM	6:55 PM	TUTH
MECH-102-01	4	6	Manufacturing Processes	7:00 PM	9:55 PM	TUTH
MECH-103-01	4	6	Machining Basics & CNC	9:00 AM	11:55 AM	MW
MECH-103-02	4	6	Machining Basics & CNC	7:00 PM	9:55 PM	TUTH
MECH-105-01	3	4	CNC III	4:30 PM	6:25 PM	MW
MECH-111-01	3	4	Introduction to Fluid Power	5:00 PM	8:55 PM	M
MECH-131-01	3	4	Intro Automated Manufacturing	7:00 PM	8:55 PM	TUTH
MECH-201-01	3	4	CAD/CAM I	5:00 PM	6:55 PM	TUTH
MECH-221-01	3	4	CAD/CAM II	5:00 PM	6:55 PM	TUTH
METC-100-L1	3	3	Intro to Engineering & Tech			TBA
METC-170-01	3	6	Intro to Parametric CAD/CATIA	7:00 PM	9:55 PM	TUTH
METC-220-01	4	6	Statics & Strength of Material	4:00 PM	6:55 PM	MW
METC-234-01	4	6	Thermodynamics & Fluid Science	7:00 PM	9:55 PM	MW

Section Name	Credits	Billing Credits	Short Title	Start Time	End Time	Days
NUET-100-01	2	3	Nuclear Industry Fundamentals	7:00 PM	8:30 PM	MW
NUET-102-01	3	3	Introduction to NDT	5:00 PM	7:55 PM	TH
NUET-130-01	3	4	Plant Systems I	5:00 PM	6:55 PM	TUTH
QSTC-115-L1	3	3	Statistical Process Control			TBA
QSTC-120-L1	3	3	Intro to Quality Systems			TBA
QSTC-150-B1	3	4	Introduction to Metrology	5:00 PM	6:55 PM	MW
WELD-100-01	4	6	Intro to Welding Processes	6:00 PM	8:55 PM	TUTH
WELD-100-02	4	6	Intro to Welding Processes	9:00 AM	2:55 PM	S
WELD-100-03	4	6	Intro to Welding Processes	2:00 PM	4:55 PM	TUTH
WELD-101A-01	2	3	Introduction to GMAW	5:30 PM	9:25 PM	MW
WELD-101A-02	2	3	Introduction to GMAW	1:00 PM	4:55 PM	SU
WELD-101B-01	2	3	Basic SMAW	5:30 PM	9:25 PM	MW
WELD-101B-02	2	3	Basic SMAW	8:00 AM	11:55 AM	SU
WELD-102-01	6	8	Advanced SMAW	5:30 PM	9:25 PM	MW
WELD-102-02	6	8	Advanced SMAW	8:00 AM	11:55 AM	SU
WELD-102A-01	2	3	Multi-Pass Arc Welding	5:30 PM	9:25 PM	MW
WELD-102A-02	2	3	Multi-Pass Arc Welding	8:00 AM	11:55 AM	SU
WELD-102B-01	2	3	Code Welding Techniques	5:30 PM	9:25 PM	MW
WELD-102B-02	2	3	Code Welding Techniques	8:00 AM	11:55 AM	SU
WELD-102C-01	2	3	Multi-Pass Pipe Fillet Welding	5:30 PM	9:25 PM	MW
WELD-102C-02	2	3	Multi-Pass Pipe Fillet Welding	8:00 AM	11:55 AM	SU
WELD-103-01	3	4	Weldment Eval & Testing	2:00 PM	3:55 PM	TUTH
WELD-104A-01	2	3	Introduction to GTAW	5:30 PM	9:25 PM	MW
WELD-104A-02	2	3	Introduction to GTAW	8:00 AM	11:55 AM	SU
WELD-104B-01	2	3	Introduction to GMAW	5:30 PM	9:25 PM	MW
WELD-104B-02	2	3	Introduction to GMAW	8:00 AM	11:55 AM	SU
WELD-104C-01	2	3	GTAW-Stainless Steel	5:30 PM	9:25 PM	MW
WELD-104C-02	2	3	GTAW-Stainless Steel	8:00 AM	11:55 AM	SU
WELD-104D-01	2	3	GTAW-Aluminum	5:30 PM	9:25 PM	MW
WELD-104D-02	2	3	GTAW-Aluminum	8:00 AM	11:55 AM	SU
WELD-105-01	3	4	Welding Metallurgy	2:00 PM	3:55 PM	MW
WELD-106-01	6	8	Basic Pipe Welding	5:30 PM	9:25 PM	MW
WELD-106-02	6	8	Basic Pipe Welding	8:00 AM	11:55 AM	SU
WELD-106A-01	2	3	Pre-Pipe Welding Skills	5:30 PM	9:25 PM	MW
WELD-106A-02	2	3	Pre-Pipe Welding Skills	8:00 AM	11:55 AM	SU
WELD-106B-01	2	3	SMAW Pipe Welding-Uphill	5:30 PM	9:25 PM	MW
WELD-106B-02	2	3	SMAW Pipe Welding-Uphill	8:00 AM	11:55 AM	SU
WELD-106C-01	2	3	SMAW Pipe Welding-Downhill	5:30 PM	9:25 PM	MW
WELD-106C-02	2	3	SMAW Pipe Welding-Downhill	8:00 AM	11:55 AM	SU
WELD-110-01	2	2	Weld Symbols/Blueprint Reading	5:00 PM	6:55 PM	TU
WELD-114-01	6	8	GMAW and GTAW Applications	5:30 PM	9:25 PM	MW
WELD-114-02	6	8	GMAW and GTAW Applications	8:00 AM	11:55 AM	SU
WELD-115-01	12	16.67	Entry Level Welding	8:00 AM	12:55 PM	MWTHF
WELD-115-61	12	16.67	Entry Level Welding	5:00 PM	9:55 PM	MTWTHF
WELD-215-01	12	16.67	Advanced Level Welding	8:00 AM	12:55 PM	MWTHF
WELD-215-61	12	16.67	Advanced Level Welding	5:00 PM	9:55 PM	MTWTHF

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