



Joseph A. Blum photo from his People & Work exhibit.

MCC's Art Gallery Will Open Oct. 17 with Blum Exhibit

Community members are invited to the opening reception for the Macomb Community College South Campus Art Gallery, 3-5 p.m. Wednesday, Oct. 17.

Located in the north lobby of S Building on the college's South Campus in Warren, the art gallery is designed to showcase and celebrate industrial art and artists of the college and community.

The gallery will open with a photographic exhibit, "People & Work," by Joseph A. Blum. Blum, who worked as a boilermaker, shipfitter and welder for 25 years, now dedicates himself to documenting and honoring the labor of men and women whose skill, effort and determination transform architectural and engineering plans into fully functional structures.

His present work is focused on documenting the new span of the San Francisco-Oakland Bay Bridge.

During a brief program at the opening reception, Jim Jacobs, college president, will introduce the new gallery and Blum. Blum will provide an overview of his transition from the trades into photography and discuss his work.

Blum's work will remain on exhibit through January 2013. Subsequent exhibits at the South Campus Art Gallery will highlight works by staff, students and community artists.

To register to attend the opening reception, email CommunityRelations@macomb.edu or call 586-445-7204.

S Building on Macomb's South Campus is part of a three-building complex comprising the Robert E. Turner Advanced Technology Center, which houses Macomb's highly regarded programs in media & communica-

tion arts, advanced processes (advanced manufacturing), product development and welding, among others. Ample parking is available on the south side of the building in parking lots accessible from Martin Road, between Bunert and Hayes roads in Warren.

Macomb Community College is often described as the 25th largest community college in the country. It provides learning experiences to about 48,000 students annually. Macomb ranks among the top 25 awarders of associate degrees and is the largest such grantor of associate degrees in Michigan.

Ford Cancels Noise to Improve Fuel Economy

DEARBORN – Powertrain noise in the all-new Ford Fusion Hybrid is like the proverbial tree that fell in the forest. With Active Noise Cancellation technology on board, if you don't hear it, is it really even there?

Active Noise Cancellation technology helps enable the 2013 Fusion Hybrid sedan to deliver EPA-certified 47 mpg city and 47 mpg highway ratings that combine for 47 mpg overall.

The fuel economy connection may not be obvious, but Active Noise Cancellation allows Ford engineers to tune the car for more fuel-efficient operation.

Calibrating an engine requires careful balance between delivering the desired performance with the lowest possible fuel consumption and emissions, all while keeping it pleasant to drive.

"The Fusion Hybrid leverages this advanced technology to help deliver maximum fuel economy



Joseph A. Blum photo of construction of the San Francisco-Oakland Bay Bridge. Photos courtesy Macomb Community College

for the customer," said Henry Ford Technical Fellow for NVH (Noise, Vibration and Harshness) Dr. Takeshi Abe. "Reduced powertrain noise in the passenger compartment becomes the icing on the cake."

At the lower speeds that help efficiency, engines produce booming, low-frequency sounds that can be unpleasant to the driver and passengers. Without Active Noise Cancellation, engineers have to keep the engine out of this operating range, sacrificing efficiency.

Yet to achieve peak fuel economy, a creative solution must be applied harnessing advanced audio technology to eradicate this unwanted sound.

A predictive control system notes driver behavior and how the engine responds, anticipating noise before it is even generated.

Three highly sensitive microphones are mounted in the Fusion Hybrid's interior head-

liner – two over the first seating row and one over the rear – to detect and measure engine noise. These microphones send a signal to the Active Noise Cancellation control module in real time.

The module instantaneously and continuously generates opposing sound waves. This reversed wave is directed through the Fusion Hybrid's audio system, combining with the original engine noise wave to cancel out any potentially objectionable sound.

The combination of the proactive and reactive signals ultimately provides a more pleasing effect for driver and passengers.

WSU College of Engineering Will Honor Its Alums

DETROIT – The Wayne State University College of Engineering will honor seven alumni and friends for their outstanding professional achievements and service at the college's 2012 Night of the Stars Gala.

This year's event will begin at 6 p.m. on Saturday, Oct. 27, at the Gem Theatre in Detroit.

Matthew (Matt) Craig, Sandeep Johri, Adriana Karaboutis and Akram Zahdeh will receive the Distinguished Alumni Award and will be inducted into the college's Hall of Fame, bringing the total number of inductees to 130 since 1983.

Retired Ford executive Derrick Kuzak will receive the Socius Collegii (Friend of the College) Award, while Darcy Salman and Paul Nahra each will receive the Outstanding Industry Achievement Award.

"We are thrilled to join College of Engineering alumni and friends at the Gem on Oct. 27 to honor these remarkable individuals," said College of Engineering Dean Farshad Fotouhi.

"They have significantly impacted their organizations, their communities and this college throughout their careers, and illustrate to our students the kinds of successes that are possible in the fields of engineering and computer science."

Night of the Stars raises money to fund student initiatives at the College of Engineering. These initiatives include scholarships for undergraduate research, study abroad and student organizations and their national/international team competitions.

Current Night of the Stars sponsors include Urban Science, Ford Motor Co., Compuware, DTE Energy, Ghafari Associates, GM Corp., GM Powertrain, Lakeshore Toltest Corp., Comau Robotics, IdeaCore, L-3 Communications, NextCAT, w3r Consulting, the Wayne County Sheriff's Department, Sandeep Johri, Paul Nahra, and Jeff and Tracey Hrubiak.

This year's Night of the Stars will include a plated dinner, awards presentation and more.

Goodyear Earns Popular Mechanics Award

AKRON, Ohio – Popular Mechanics has named The Goodyear Tire & Rubber Company as a 2012 Breakthrough Award winner for their Air Maintenance Technology (AMT).

The magazine's Breakthrough Awards, now in their eighth year, recognize the innovators and products that have dramatically advanced the fields of technology, medicine, space exploration, automotive design, environmental engineering and more.

Goodyear and other winners will be honored at an invitation-only conference and gala awards ceremony in New York City on Oct. 4, and in the November issue of Popular Mechanics, available on newsstands Oct. 16.

"We are honored to be named as one of Popular Mechanics Breakthrough Award winners for 2012," said Goodyear's Chief Technical Officer Jean-Claude Kihn.

"Our Air Maintenance Technology will enhance driving performance, while having a positive impact on the environment through improved fuel efficiency, reduced emissions and extended tire life. This award highlights the innovative work of our engineers, as well

as our efforts to bring a relevant product to market."

Goodyear's Air Maintenance Technology, said Kihn, will help ensure the optimum tire pressure is maintained and as a result could mean substantial savings at the fuel pump.

According to government and industry research, underinflated tires result in between a 2.5 percent and 3.3 percent decrease in fuel economy.

While the technology is complex, the idea behind the AMT system is relatively simple and powered by the tire itself as it rolls down the road.

"We are once again excited to recognize this year's list of incredible honorees for their role in shaping the future," said James B. Meigs, editor-in-chief of Popular Mechanics.

"From a featherweight metal to the world's fastest and most electrically efficient supercomputer, this year's winners embody the creative spirit that the Breakthrough Awards were founded upon."

A full list of winners can be found at www.popularmechanics.com/breakthroughawards.

Past recipients of the Breakthrough Awards include Hollywood celebrity filmmaker James Cameron, genomics mapping pioneer J. Craig Venter, efficiency expert Amory Lovins, inventor and FIRST Robotics founder Dean Kamen, and humanitarian engineer Amy Smith.

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