

Reservations required by September 6
Tickets \$25, Refreshments included
Purchase Tickets online at:

http://www.midmichigansae.org

Mid-Michigan Section Tour with Program

Monday, September 11, 2017 5:00pm - 7:30pm Tour, 7:45pm Program

The Lingenfelter Collection

7819 Lochlin Drive, Brighton, Michigan

Tickets \$25

The Mid-Michigan SAE section extends an invitation to attend our Tour of The Lingenfelter Collection of Classic and Unique Automobiles with a Technical Presentation by William Owen " 1989 Pontiac TTA"

The Lingenfelter Collection

What started out as five cars packed into a modest three-car garage has grown into a huge, beautiful collection of unique cars in a 40,000 square foot space. While the collection is not open to the public, it is available for corporate and charity events. Ken Lingenfelter supports the American Cancer Society with moneys from tour events. Do not miss this opportunity to visit the Lingenfelter Collection and meet Ken.

Among the many Classic, Custom, Exotic, and Unique automobiles Ken has in his collection is a 1989 Pontiac Turbo Trans Am Indy 500 Pace car.







Reservations required by Noon Wednesday, Sept, 6, 2017
Purchase Tickets online at: http://www.midmichigansae.org

Contact: Bernard Santavy at SAEMidMichSec@cs.com

or call (810)-635-7948 for reservations

The Speaker

William "Bill" Owen A graduate of the University of Michigan with a degree in **Mechanical Engineering** worked for General Motors at the Buick Motor Div. and later at GM Powertrain. Bill now manages his racing business Owen Engine Development. Bill was inducted into the Michigan Motorsports Hall of Fame in 2009. He is an accomplished NHRA Drag Race drive and engine builder. He has won numerous NHRA events and was a Division #3 Points Champion. Presently he is a tuner/consultant with Big Stuff 3 EFI systems assisting professional Drag Racing Teams.

In his presentation, Bill will tell the REAL story behind the creation of the 1989 20th Anniversary Pontiac Turbo Trans Am. The story of bringing the TTA to production is a tale filled with road blocks and creative engineering. Not only was there only a small budget to work with but GM Corporate politics tried to block the release of a Buick powered Pontiac Trans Am.





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Bill Owen, the Buick engineer, who directed and assisted the merging of the Buick engine with the Pontiac Trans Am chassis will reveal what makes the 20th Anniversary Turbo TA so special. It is a complete mechanical package, and not just some tape stripes. Starting with the engine, Pontiac borrowed Buick's 3.8 liter (231cid) V6 turbo power-plant from the fabled 1986-87 Grand National. Some difference exists between the TTA motor and the GN version. Different heads were necessary in order to squeeze the motor between the strut towers. These heads, adapted from the transverse FWD version of the 3.8 liter motor, have the added benefit of improved exhaust flow and combustion chamber design. Subsequently, different pistons were required in order to maintain combustion chamber volume. Other changes to the TTA motor are a cross-drilled crankshaft, larger 12 fin/inch GNX-style intercooler in place of the GN's 10 fin/inch design, specially-designed stainless exhaust headers, a higher-pressure Bosch 237 fuel pressure regulator, and a recalibrated engine control module.



