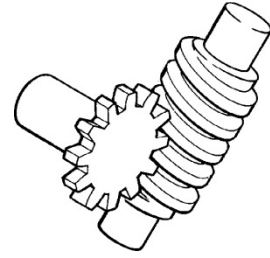


**METRO DETROIT
METALWORKING
CLUB
APRIL 2013**



Club website: www.metrodetroitmetalworkers.com

Treasury report:

Balance: \$767.05

Next meeting:

May 8, 2013, 7p.m.
Macomb County
Community College
Building R, Room R135
(Northeast corner room)

Contacts:

President: Rick Chownyk

Vice Pres: Emil Cafarelli

Treasurer: Ken Hunt

Secretary: Bob Farr

Webmaster: Steve/Doug Huck

President's message: Ok, I'm putting away my snow shovel (quietly of course, so Mother Nature doesn't notice!). So far this last week has been great, and I'm making progress on the house construction again!

NAMES was great! Had a lot of fun and even though it was a bit cold (had snow on my truck hood Saturday morning) the show was a lot of fun! Steve and Peggy never slowed down, Joe Communal ran his CNC lathe making spark plug insulators and I got to do my stuff!

Although I wasn't sure if I wanted to do Makersfaire this year or not, I have decided to do it again! I'll talk more about it at the meeting.

This month's meeting will be a mixed bag of how to make threads and how to measure them. I hope a few of you have some pointers and tips to pass along! I'll have some tools and examples to show also.

Well, enjoy the weather and hope to see you at the meeting!

Rick

Show & Tell: New MDMC member Mark Wyatt was found displaying the symptoms of old iron disease when Rick bumped into him at a local estate sale. Rick encouraged Mark to visit our meeting and did, bringing along this nice Stanley level from his collection (patented June 23, 1896):



Dale Hagel is MDMC member James Hagel's son and visited us at the April meeting. We're glad you could join in Dale. Bring a *Show-&-Tell* next time – no, dad doesn't count (but we're glad you brought him)!

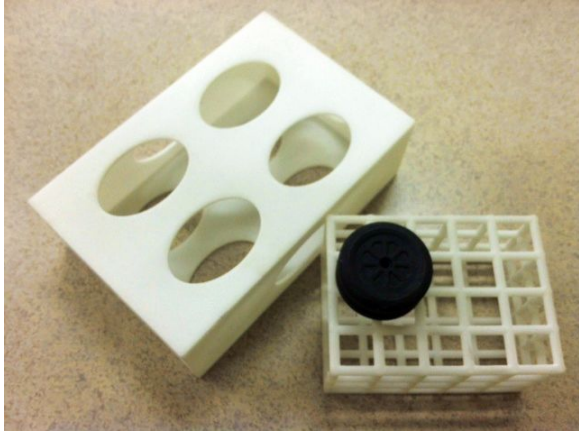
Rick Chownyk shared several interesting items. This first one is a hot wire foam cutter powered by two D-cell batteries:



Rick uses it to slice foam when preparing foam casting cores. It is made by Floracraft Corporation in Luddington, Michigan, telephone (231) 824-5127, www.floracraft.com. The cutter can be had for just \$11.75 (plus *free shipping*) at Amazon.com.

Rick also shared several examples of 3D printing/rapid prototyping. This first picture shows a "parts cage" which, if I understood correctly, is formed at the same time during the manufacturing process that the parts themselves are.

The purpose of the cage is to retain the parts during shakeout from the media so they do not become lost:

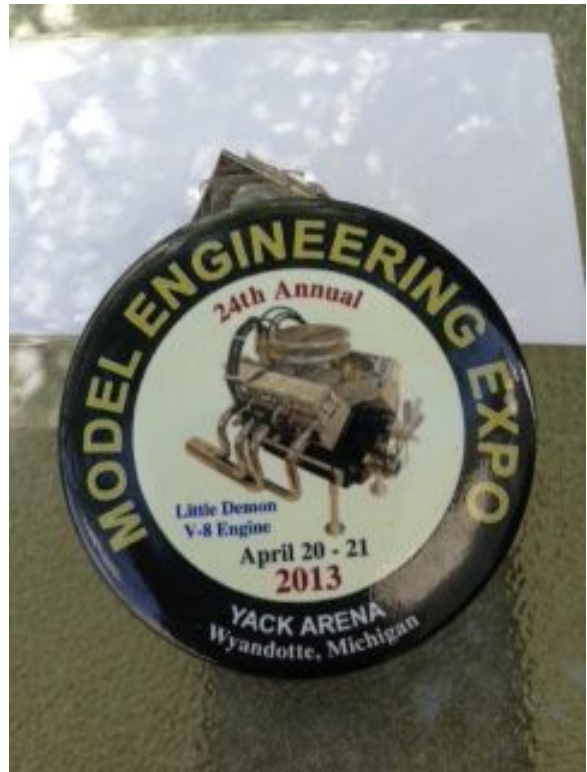


This next item is a wheel, made in a product called RenCast as gifts for kids during a visitor's day at GM:



That was it for show and tell at the April meeting. A bit light (probably in anticipation of NAMES) so let's see if we can improve on this in May!

N.A.M.E.S. highlights: The North American Model Engineering Show was held at Yack Arena in Wyandotte on April 20-21st, and the highlight of the show has to be this:



MDMC member Steve Huck earned some well-deserved recognition when he was selected as Craftsman of the Year for 2013, and his Little Demon V8 was selected as the badge model.

Here is his “Little Demon” in a closer view:



The COTY recognition was not just for this engine, but is for a broader body of high quality work that Steve has become well known for:



For instance, between NAMES 2012 and 2013, Steve managed to put together this V-twin I.C. engine based on an air compressor casting for the cylinders and block, but with *everything* else of his own design:



Steve was very popular and had many visitors throughout the show:



Also very popular during the show was member George Waterman, seen here answering questions about his Sterling engine design:



George's engine is still a "work in progress," but he put together an impressive display of its components and operating theory:



MDMC member Joe Comunale provided lathe turning demonstrations and information about his CNC indexer which were also very popular:



Rick is camera shy, but can be seen in the background of this spy photo giving instruction with his Rick-o-Matic (or munching doughnuts):



Many MDMC members volunteered time at our Club display, or with the show itself. Mike Danko, Karl Gross and David Zimmerman can be seen in

this picture, taking a brief but well-earned break from the activity:



Dave also presented a welding theory seminar during the show, which was very popular.

The Club's engine managed to spin dutifully throughout the show:



Some of our neighbors near the MDMC tables included the Cinder Sniffers model live steam club from Ohio. Here is Chuck Balmer with his operational 3/4 scale version of the Lima #1601 Allegheny Type 2-6-6-6 engine on display at The Henry Ford:



The real engine #1601 is 125-feet long, while Chuck's is more manageable at approx. six feet long:



The Cinder Sniffers had many other operational models on display on a well-planned presentation rack:



The Cinder Sniffers club has a web site with several interesting videos of their models in action:

www.cindersniffers.org

Also near the MDMC table was Robert Calquhoun of Milwaukee, Wisconsin:



Robert's model is displayed in its farm water pumping role, complete with somewhat less than scale cows:



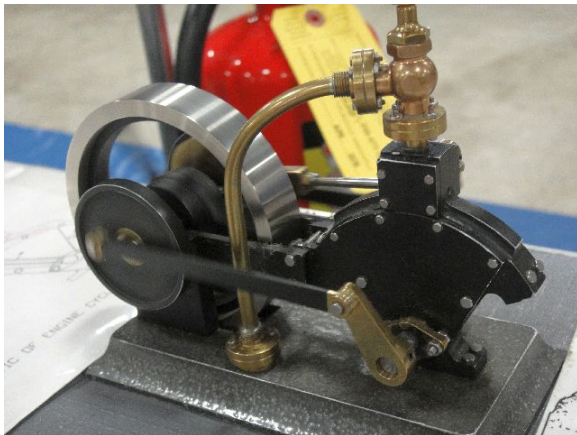
Robert is a longtime exhibitor at NAMES. This year his name was chosen for one of the many door prizes – congratulations Robert! It was a pleasure to meet you.

Jerry Pontius displayed several engines. This first one is a marine steam unit called a Steeple:



Another of Jerry's engines may have had the *smallest* parts – being worn on a tie bar and running on hidden pressure lines:

Jerry also modeled an engine made by the Kimble Engine Co. of Kalamazoo. It is a unique design, having “no piston, crosshead or ways”:



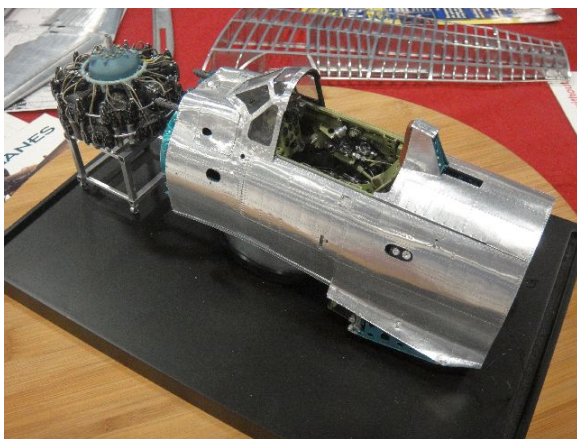
The engine was marketed as having “the least number of moving parts”, which was no handicap for Jerry's fine-running model:



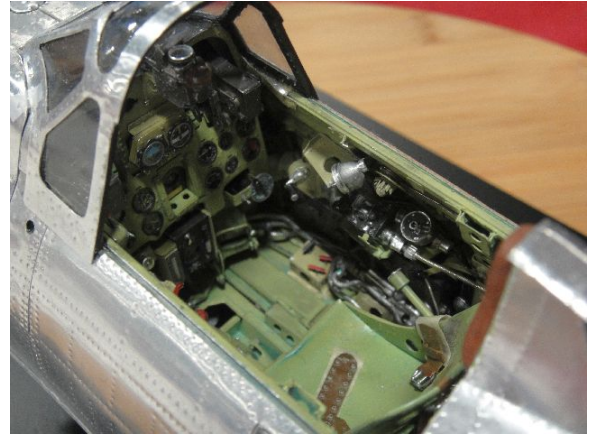
Here is a close up of Jerry's tie bar engine. It would probably raise some questions from the TSA at a security checkpoint:



Several past Craftsmen of the Year were at NAMES 2013, including Guillermo Bazán of Royal Oak, Michigan. He models vintage aircraft in such fine detail that it can be difficult to distinguish them from the full-size planes if a reference object is not also within the picture:



This picture is the cockpit of an A6M2 Mitsubishi "Zero" fighter in progress – see what I mean!

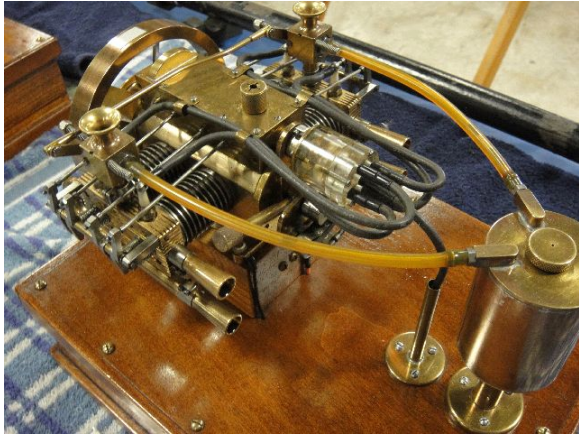


Mr. Bazán maintains a web site at www.rojasbazan.com I encourage you to visit it for many more detailed pictures than can be conveyed here.

Dale Detrich is another perennial exhibitor at NAMES and he brought many of his models to this year's show. One of my personal favorites is his Gatling gun:



Dale also displays engines of his own design and manufacture, like this nice horizontally opposed four:



The following model is larger than most. It is a 39% scale 1939 Maserati Model 4CL by Bernardo De Fiore:



This car raced with a four cylinder engine. Driver comforts (in the original *and* this model) are spartan, but the model looked ready to take to the track if only a small enough driver could be found:

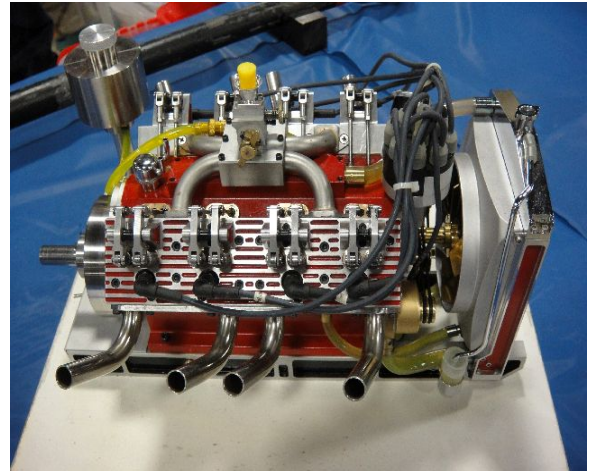


In fact, look closely enough and you may see the worn leather of the seat and the patina of a driver's hands on the wooden wheel. Like Mr. Bazán's aircraft replicas, Mr. De Fiore's car would be difficult to distinguish from real if the view angle of the picture were narrow enough to exclude clues about its scale.

Mr. De Fiore also displayed an impressive 1940 Maserati straight eight cylinder supercharged engine and the molds from which it was cast:



Gary Davison displayed this Hoglet V-twin, build on a Randall Cox design appearing in issues #10-11 of Model Engine Builder Magazine:



David also displayed this nice horizontal steam engine. More of his work can be seen at www.davesage.ca

David Sage had several models at this show. This first one is a replica of Henry Ford's first engine:



George Britnell displayed an impressive array of model engines, including this *very* nice Ford V8:

David also displayed more complex models, such as his V8 version of the Jerry Howell-designed V4 internal combustion engine:



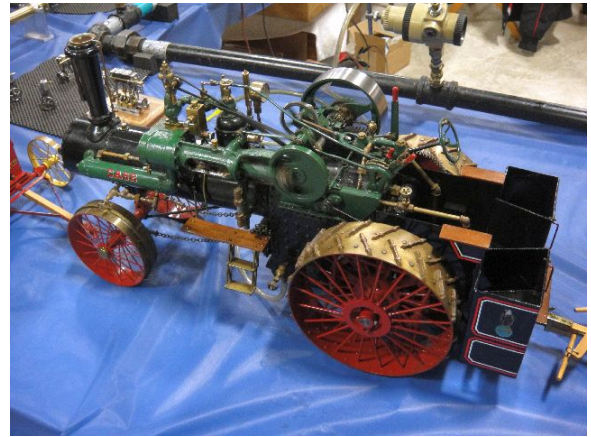
So nice it deserves a second look:



He also makes round engines ...



... and replica Case traction engines:



Louis Chenot is working on a 1/6-scale Garwood wooden boat model to be powered by a Liberty V12. The boat was shown “in progress” at NAMES 2012 and was about four feet long (this shorter version was present this year for reference):



The engines were the highlight of Louis’ display this year. Liberty engines were designed for aircraft use but modified for marine racing. This first photograph shows the Liberty

which was used to “break in” the internals for the engine which will eventually power Louis’ model (note the open exhaust):



This second picture is the marine version which will find its way into Louis’ Garwood (note the shrouded exhaust stacks for water injection):



What a tremendous undertaking! These models must take more time to build than the originals.

The guys at the Michigan Scale Model Boat Club returned to NAMES 2013 with a great display of their many impressive models. Here is Gary Girvin, with his 1/4 scale Chris Craft Cobra:



If built to full scale with the same quality it would no doubt attract a few full scale “Cobra babes” of its own (this looks like Gary – coincidence?):



Bob Farr, Secretary