

Metro Detroit Metalworking Club

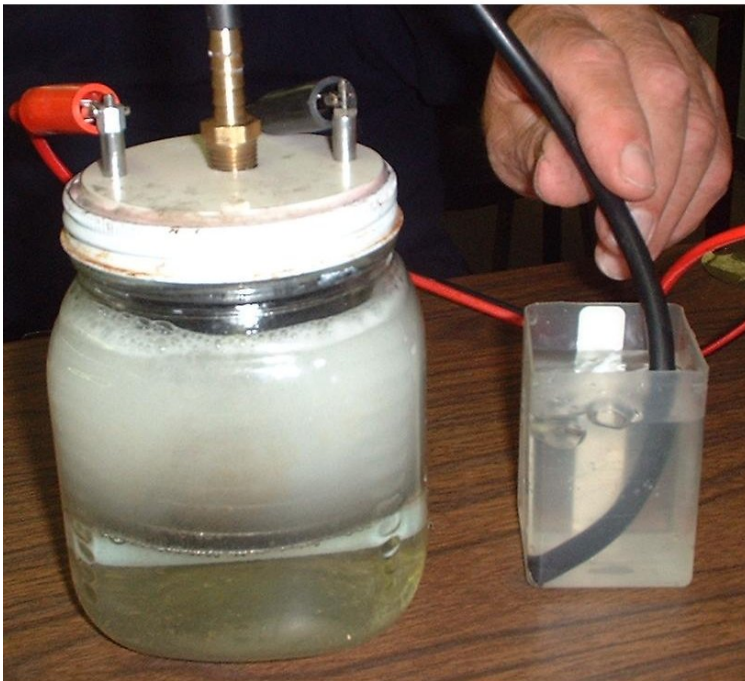
Sept '08

Beginning balance	766.96	President	Rick Chownyk
2007 dues income		V. President	Emil Cafarelli
Non-dues income		Treasurer	Ken Hunt
New balance	\$766.96	Editor/Lib	James Howard
Expenses	-\$0.00	Publisher	John Lee
Total on deposit	\$766.96	Webmaster	Dan Hittenmark
DUES: \$10/yr. check to MDMC c/o Ken Hunt, A		Macomb Community College 14500 E 12 Mile Rd, Warren, MI Room R-128 (parking off Martin Rd East of Bunert Rd Next meeting: September 10, 2008 (2nd Wed of every month)	

We will have our normal meeting at Macomb Community College on Wed. Sept 10 in room **R-128**.

SPECIAL EVENT (Map on Last Page)

We will have a get together on Sept. 27 from 10 AM to 5 PM at my house. I will be demonstrating Casting Aluminum using the lost foam method. I will have my tabletop CNC "Rick-O-Matic and hope some other members will bring cnc machines or 3D printers they are working. I will have some form of barbeque. Hope to see you there. Rick



Adam Hermann generating hydrogen and oxygen using hydrolysis. Warning; since this is a mixture of hydrogen and oxygen do not try to store this in a tank. Flash back in a tank will ignite the entire contents with a big boom!

NEW ROOM: At the start of each semester we **run the risk of** being assigned a new room for our meetings. This semester we will be using R-128. It is located in the next building over.

MDMC Minutes of 13 August 2008

The meeting was called to order by the Vice President, Emil Cafarelli, in the absence of Rick Chownyk.

Joe Pietsch, presented a small variable height tool holder enabling fine adjustment of the vertical position of a tool holder mounted on a lathe cross slide.



Adam Hermann, demonstrated a hydrogen generator using stainless steel plates and some baking soda as the electrolyte. He produced a mixture of oxygen and hydrogen. This demonstration prompted an extensive discussion of the potential for hydrogen as a direct fuel source for automobiles. Current technology pressurizes hydrogen to 10,000 psi using carbon fiber tanks. The problem with hydrogen gas is that its energy density is much less than gasoline. On the plus side, if you have the ability to create electricity from sources other than oil, eg hydroelectric, solar, wind or nuclear you could ease our dependence on foreign oil. There are a number of technological problems of converting to a hydrogen economy so don't expect to be getting hydrogen at your local gas station anytime soon unless there are major breakthroughs.

Ken Hunt requested assistance in locating a source of Excelite tools and was assured by the membership that the company and its products are still available.

James Howard, Metro Detroit Metalworking Club
Contribution from John Osborne:

Gas prices have eased but the scams have not. In our last meeting, we had a spirited discussion about increasing gas mileage. Modern cars get good gas mileage already and there are no "secrets", devices or additives that make a difference, except for a very few. About 80% of the gas that goes in your car is to move all the weight down the road. About 1/3rd of the gas turns into heat that goes out the radiator, about 1/3rd goes out the tailpipe and 1/3rd moves the weight down the road. This gives you, the car makers and the oil companies very little to work with.

Some things that work:

Remove excess weight (junk in the trunk, even the spare tire and jack).

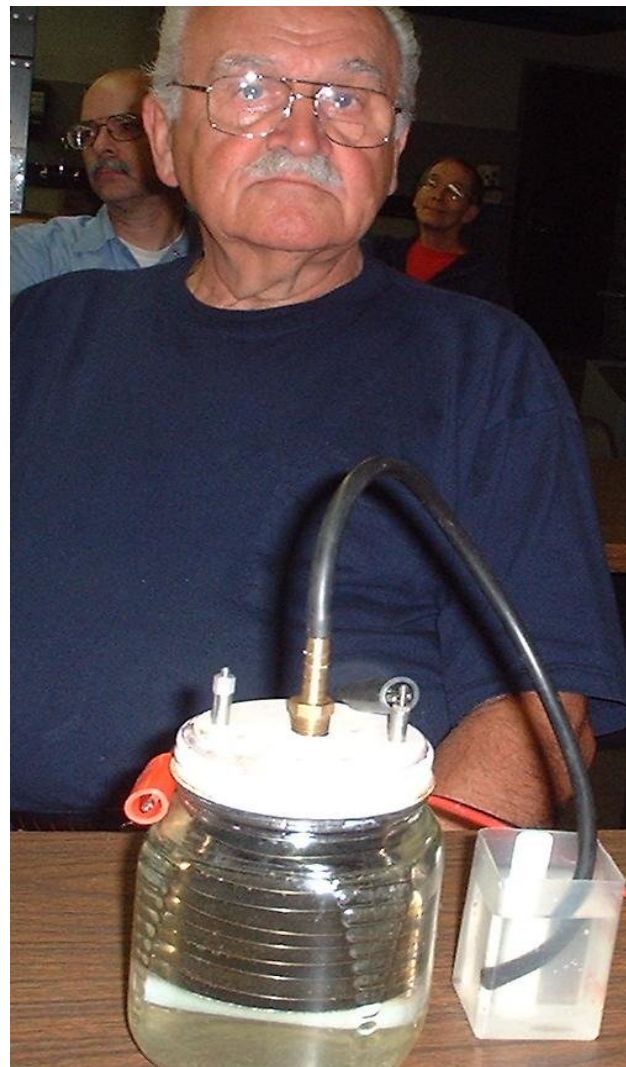
Inflate tires to the max listed on the tire sidewalls. The ride is harsher, but it rolls easier.

Find and fix mechanical problems, like bad oxygen sensors, filters, spark plug wires, etc. Use the lightest weight oil recommended, or try a synthetic. Stay under 60 miles an hour and change other driving habits. Get a car with better mileage (smaller, diesel, hybrid).

1. Get the device at www.ScanGauge.com. It shows your mileage as you drive.
2. Don't drive as much. Carpool, consolidate errands, walk if you can.

Some things that don't:

- 3 Acetone and other gas additives.
- 4 Hydrogen generators.
- 5 Magnets Ionizers, vaporizers, et



Above: Our very own mad scientist, Adam Herman, just before the exothermic reaction. On the next page are the sole survivors.... or is it the Swap meet that the Metal Club held in July at Macomb Community College parking lot. ?

Robotics & Technology Club

.Special Meeting Sept 27

10 AM- 5 PM at Rick Chownyk's Home . Metal Casting and CNC Demonstrations see map on last page

Contact: Donald Foren at



Joe thinking twice before he lights up a cigar next to Adam's hydrogen generator. What can I say,the room and most of the building is currently being repaired so we will be meeting in a new room R-128.

