METRO DETROIT METALWORKING CLUB					JULY '05
Beginning balance	$217.96	President	John Osborne		
2005 dues income	$0.00	VPresident	Emil Cafarelli		
Non-dues income	$0.00	Treasurer	Al Campbell		
New balance	$217.96	Editor	Brian Lawson		
Expenses	$0.00	Publisher	John Lee		
Total on deposit	$217.96	Webmaster	Dan Hittenmark		
DUES: $10/yr. check to **MDMC** c/o Al Campbell,			Macomb Community College 14500 E 12 Mile Rd, Warren, MI Room T-120 (parking off Martine Rd East of Bunert Rd **Next meeting: JULY 13, 2005 (2nd Wed of every month)**		

President's Message

Hello fellow metalworkers. I just tried a product called Rulon tape. I am using it for slideways. Its reduces friction noticeably and even more important, it greatly reduces stick/slip. The adhesive backer is very difficult to pull off, but when I pasted it down to clean, bare metal, it stuck like crazy. Even after slathering the setup with oil, it stayed stuck. It seems highly resistant to wear and abrasion. The next time I take apart my mill/drill, I will put the tape on those slides. The product is from CS Hyde Company 800-461-4161. McMaster-Carr carries this as part # 7800A11 or 7800A12 for 1/" or 1" wide rolls that are 5 yards long. They cost $15.52 and $30.73.

John Osborne.

MINUTES OF JUN 8, 2005 MEETING.

Meeting opened 7:30PM with John Osborne presiding, 19 Members, and unusally, no Guests.

John O. opened with his views and comments on the past 10 months of successful operation of MDMC. He noted the general duties of each Officer, and how well they had worked together and "load-shared" for this period. He put forth the suggestion that it was time now for a new Executive to be properly voted in, rather than our current volunteers and appointees. This was followed by a lengthy discussion, and the following motions.

Moved and Carried: An Executive term of Office will be based on the calendar year, January to December.

Moved and Carried: Elections will be held annually in December.

Moved and Carried: Each current Executive will form an ad hoc Nominating Committee in October, to present a slate for publication to the Members in November, for a vote at the annual December meeting.

Moved and Carried: At each October meeting, the presiding Chair will ask for any Member wishing to serve a term of Office, to make themselves known to at least two of the current Executive.

Moved and Carried: At the time of vote and election for Executive Officers, prior to the vote and notwithstanding any proposed slate, any Member in good standing may stand, with-out nomination, by announcing his/her candidacy for a specific position as an Executive Officer, and his/her name shall also be carried on the balloting. All voting to be by secret ballot.

Then there was another discussion about whether the Members wished to hold or suspend monthly meetings during the summer months of July and August. The members were in favour of continuing throughout the year. This was followed by a further suggestion that these summer months were good opportunities for "field trips", and that some proposals be made. Brian is to look into the dates of the Brigden Steam Threshermens weekend, and possibly arrange a "three-fold" trip.

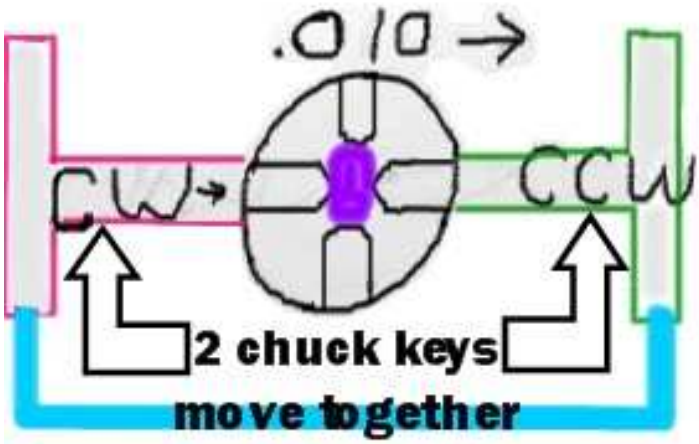
And speaking of trips, John said he was going to the CNC Workshop later in the month, and there were dire warnings given to him about the ghost of Al Capone.

Business portion of the meeting ended approx. 8PM

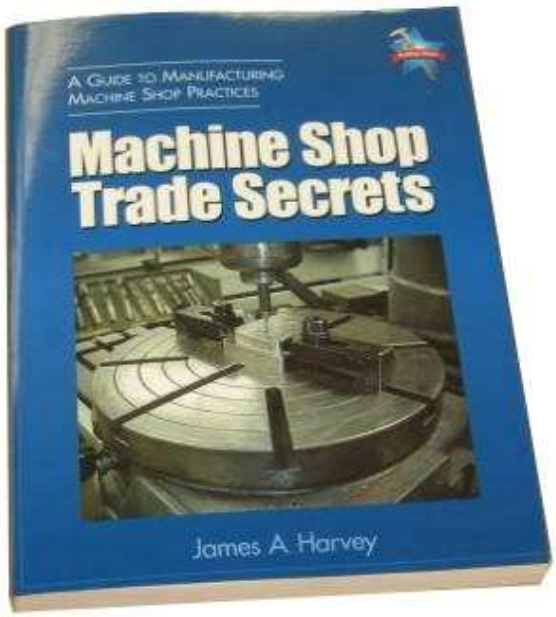
SHOW & TELL

Just one of the items **Joe Pietsch** brought, a Mauser inside micrometer, this one about 8" long. Well made!

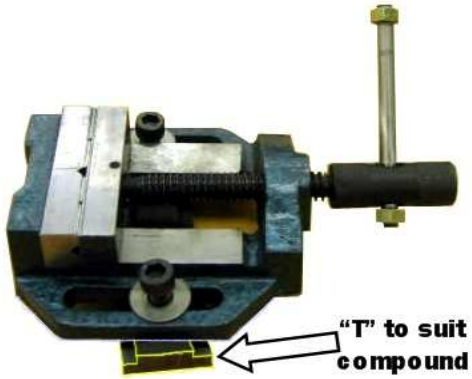
Karl Gross thought we were getting bored of seeing his *super* dividing head!! So as a door prize he brought in an assortment of pipe-thread dies, sans die stock. All older issue from Craftsman, some still in little boxes.



Joe Pietsch also had a real slick tip for locating/centering an item in the four jaw chuck by the use of two identical chuck keys at the same time. Assume, as above, that the work has to move 10 thou to the right. Using two chuck keys AT THE SAME TIME, EQUALLY AND TOGETHER, pushing down in this example, each of the two jaws will move in the same direction by the same amount at the same time! The item won't even get "lose" if you do it right! You could even carefully place or mount an indicator touching the work and watch it move over to the desired location. In practice, I would think that you always "push down" on the chuck key handles, and that to move in the opposite direction you would rotate the chuck 180 degrees so you can still "push down". *(Call me stupid, but it took until I started to write the newsletter to see what was so slick about this. But I see it now!!)*



John Lee brought in "***Machine Shop Trade Secrets***", a book so good it only managed to get passed around to half the guys in an hour!! It is published by the well known if not famous Industrial Press Inc., the same company that does the ever popular Machinery's Handbook. Retails at $39.95, thru
< http://www.industrialpress.com/en/index.asp>



Another simple one from **Joe P.** He made up a nice long "T" to fit the top-slide or compound on his lathe, then tapped two holes to suit the hold-down slots on this 3" vise.

Magician's??? We got em! Last month it was *Nick the Magnificent*, and this month it is *Adam the Amazing*. **Adam Hermann** demonstrated a phenomena showing the effect of eddy currents (or is it hysterisis?). He dropped one of those extendable magnetic pick-ups into a ½" copper pipe about 2 feet long. It takes a good ten seconds for it to "fall" all the way through. You can push it through faster, but really feel the force trying to slow it.

Bert Campbell with another dandy. He bolted a welding "ground-clamp" magnet through an old golf club head. Put a plastic bag on the magnet, pick up chips, peel the bag off inside out, and voila!! Clean magnet! Bag full of chips!!

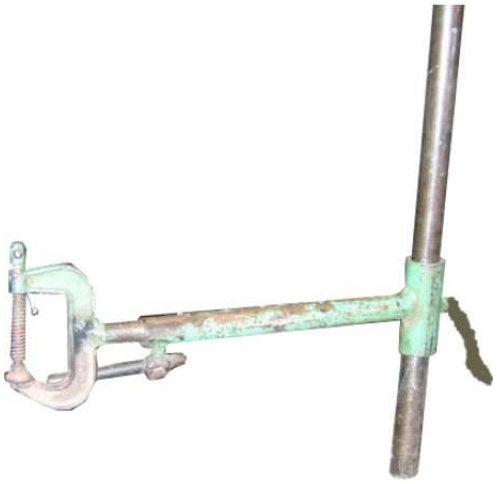
Emil Cafarelli did a really good demo of aluminum welding. For safety, he wisely dragged us off to the college welding shop, and showed us how to weld together very thin stock aluminum. I was impressed. The photo doesn't show it very well, but that sort of shiny stuff on the right is (my attempt to show) the back-to-back joint Emil made of these two pieces of light gauge metal. We could not tear it apart, and we bent the metal trying, as you can see. Inset is the "torch" used, and while others would work, this was very handy with a self-light and trigger. By the way, more than one of us learned that the aluminum cools off a lot slower than it heats up!! Don't ask how we found out!

Karl Peters made a super boring bar system for use on his Sherline lathe, but it would adapt to any lathe if sized to do so. He used the smaller of the three between-centres type bars (yellow circle) to bore the hole in the aluminum support block (magenta circle). Note the flat on the end of these for a drive-dog. Each of the "plain" boring bars then close-fit that hole, and each has a relief area (orange circle) where the clamp bolt holds them, and this relief area keeps any scoring from galling the hole. All the cutters are round, in three sizes (1/8 ,5/32, 3/16), and the square bars (green circle) are to hang onto the HSS rods while rough grinding and sharpening, one for each diameter of cutter. It may look like some of the "bars" and the grinding holders are aluminum in the photo, but in fact they are all steel.

Brian Lawson showed around a neat little pocket booklet from Starrett about hack-saw and band-saw blades, full of good info.

And just to top it off, **Joe Pietsch** passed around quite a few nice photos of the Tri-State Engine Show, which is like a HUGE swap meet. He and Bert went in Bert's motor-home for a few days late last month, and were very impressed with both the quality and quantity. 100 acres of "*stuff*"?? Wow!!

While we were in the welding shop with Emil, we saw the very simple but elegant holding device in the photo below. I guess it's not really Show & Tell, because we neither built it or brought it in, but it is well worth looking at here. It is used in the welding shop at the College, but the idea would be well placed anywhere in any shop. Dimensions and sizes are just guesses on my part, and would certainly be done to a scale that suits the need.
Very simple... an anti-spatter type welding C-clamp is welded centrally onto the end a 1" bar, which can rotate 360 degrees and slide in and out in an 18" long horizontal 1-1/2" pipe with a locking bolt and handle. The 1-1/2" pipe is in turn welded to a "T" with its own clamp bolt, sliding vertically on a 1-1/2" solid bar (or maybe another piece of pipe?), about 24" long, allowing height adjustment. In the pix, I've cut away the bottom of this pipe, but it was welded solid to one edge of the table-top Emil used for his brazing/welding demo.



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This came up on a newsgroup I follow, and because I noted that there were some interest in this type of stuff that didn't put you to sleep (RIP Rudy), I thought I'd throw it in here. Every one on that NG who has used the service has raved about it, but I have no actual personal experience, or have not as yet, due to my living outside the USA. If you do try it, please give us a report at a meeting.
http://technicalvideorental.com/

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See you at the next meeting. Take care. Brian.