

April 21, 2008

Volume 2; Issue 4

SURGEONS OF STEEL



The Tool, Die & Machining Association of Wisconsin

Next Member Meeting

Tuesday, May 6th

Alioto's Restaurant, 3041 Mayfair Road

6pm ~ Networking

7pm ~ Dinner and Member Meeting

7:30-8:30pm Guest Speaker Maureen Uy

Uy Creative Communications

- ◆ Internet Marketing
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- ◆ Web Page Advancements

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- Prime Rib
- Chicken Normandy
- Sicilian Cod

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RSVP Required

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Thank you to those that attended the April TDMAW member meeting at the MATC ECAM Center. We were welcomed by several MATC leaders and received a tour of the campus. The new BotsIQ Wisconsin arena was also on display in preparation for the April 12th competition to be held there. Some members saw it for the first time and had the opportunity to drive the robots created for teacher training.

The impressive new ECAM campus is almost complete and ready for its grand opening. TDMAW members should be very proud of their donation to help fund building this campus. It is equipped with some of the latest manufacturing machines, five-axis milling and turning, high-speed milling and turning for hard machining.

Last February I was approached by Jesse Domer from Watertown High School. He asked me to be a judge for the SkillsUSA contest to be held April 8th in Madison. Jesse is a teacher with a passion for this trade and I felt inspired to help him.

I chaired two SkillsUSA competitions, both involved high school and technical colleges. The first was CNC Milling; students had to produce a part from blueprints I provided by using a CNC Mill with G-code programming. The second was the Automated Manufacturing competition with student teams of three. I provided a machined-up part from which they had to reverse engineer using a CAD system. They then had to use a CAM system to CNC mill the parts. Each competition had a time limit of four hours.

One dilemma of these two competitions was that schools have different CAD/CAM systems making it impractical to hold the competition in one location because of the time it would take to learn to operate a different mill. The solution was to hold the contest at each one of their schools, so I did a lot of traveling and met a lot of nice teachers and students. It brought back a lot of memories from when I was a student. The equipment at these schools ran the gamut from pre-World War II, all the way to very modern CNC equipment. Afterwards we all met in Madison on April 8th and I administered a written test. I stayed up until two in the morning correcting them all and determining the winners.

After turning in my results to SkillsUSA, I headed off to help Lynn Mahuta and John Puhl who were there to promote our trade in the TDMAW booth. We talked and listened to many students, parents, and teachers about manufacturing. It is amazing to me that how little manufacturing is taught in high schools anymore. A lot of these students do not even know that manufacturing is a career.

I found this to be a very rewarding experience and thank all of you who are out there trying to make a difference promoting our trade. I believe that by doing this, we can make a difference.

Your president,

Allen Weiss

Membership Candidates

Crosstowne Machining, Inc.

David Griffith
S81 W18510 Gemini Drive
Muskego, WI 53150
17 Years in Business; 14 Employees
Custom & production machining

Kelly Welding Corp.

Mike Kelly
5900 N 91st St
Milwaukee, WI 53225
31 Years in Business, 12 Employees
Job Shop - Welding & flame cutting

Strohwig Industries

Wolfgang Strohwig
3285 Industrial Road
Richfield, WI 53076
NTMA/AMBA Members
30 Years in Business, 152 Employees
D&B Plastic injection molds & die-cast dies, contract machining up to 150,000 lb. pieces

Muza Metal Products Corp.

Thomas Muza
606 E. Murdock Ave.
Oshkosh, WI 54903
80 Years in Business; 190 Employees
Contract metal fabricator, powder coater & assembly
Referred by Greg Grambow, Du-Well Grinding

Please contact the Membership Chair, John Puhl at J.P. Pattern if you have questions and/or comments regarding these candidates.
Phone: 262-781-2040 or e-mail: johnp@jppattern.com.



It is with much sadness that we inform you that longtime member Robert C. Frankulin passed away on Saturday, April 7, 2008. Bob was a retired member living in Land O' Lakes. Frankulin Tool and Die Company was a member for over 25 years. As owner of Frankulin Tool, Bob was on the TDMAW Board of Directors in the 1980's and served as TDMAW president.



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2006 Haas VM2, 30 x 20 x 20 travels 12000 RPM High speed machining hard drive/Ethernet, Renishaw probing system, \$62,000 - 6 x 18 Okamoto Manual Grinder with coolant system, \$8500 - 3R Workman Robot for Macro pallets, \$30,000
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Leveraging Lean Through Automation - Manufacturing Symposium

Moraine Park is sponsoring **Leveraging Lean Through Automation**. This seminar features industry experts and will explore ways manufacturers benefit their bottom line through automation and robotics, examining the business case to support the investment.

When: May 7, 2008, 8:00 a.m. to noon
Location: Moraine Park Technical College, 235 North National Avenue, Fond du Lac, WI 54935
To register or for more information call (920)924-3449 or e-mail training@morainepark.edu.

Should my shop become ISO certified?

Join us for an ISO Informational Meeting
11am ~ Tuesday, May 13th

Genesis 1, our Group Buying Partner for ISO consulting and training, will host an informative class to answer questions like:

1. What type of certification should I go for?
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3. How long will it take?
4. Can a Company Quality Manual make me compliant?
5. How much would it cost to create a Company Quality Manual?
6. Are there Grants available to help pay for certification/training?

The location at which we will hold the meeting, as well as the cost, will be determined once we know how many people plan to attend.

If you have questions and would like to learn more, consider attending this two-hour session. If you plan to attend, please reply via e-mail (toolmaker@tdmaw.org) before April 25th.

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BotsIQ Wisconsin April 12th Competition Results



1st Place

Grafton High School -
The RAMBLER



Grafton High School—Brandon Becker, Eric Boelkow, Trent Mader, Luke Smallish, Instructor Mike Dodge

PORTFOLIO WINNERS

Students in the competition were required to collect materials and create a Portfolio that provided evidence of their competence, knowledge, skills, abilities, dispositions and improvements to the robot. Cash prizes were awarded as follows

1st Place - 104 Points
Grafton High School
RAMBOT

2nd Place - 102 Points
Germantown High School
Black Widow III

3rd Place - 71 Points
Grafton High School
The RAMBLER



2nd Place

Lincoln Center of the Arts - Jigsaw
(Middle School)

Lincoln Center of the Arts (Middle School) - Kyree Brooks, Alyssa Claderon, Harolym Cordero, Brandon Goffin, Monique Inge, Dorian Lemus, GGeneva Tomolac, Joseph Trokan-Tenorio, Instructor Eugene Trotter

3rd Place

Slinger High School - Bombshell
(Bots Club)



Slinger High School Bots Club—Dylan Bertelt, Logan Boschae, Matt Byrd, Peter Lee, Matt Smith, Calvin Reindens, Dan Steingraber, Mike Ziegelbauer, Instructor Thomas Kiser



Participating Schools

- Gateway Technical College
- Germantown High School
- Grafton High School
- Kettle Moraine Lutheran High School
- Lincoln Center of the Arts
- Mukwonago High School
- Sheboygan North High School
- Sheboygan South High School
- Slinger High School
- Wauwatosa East High School

Congratulations!

Drawing Prize Winners

Starret 1" Micrometer - Germantown High School
MATC CNC Machined:

- **Chess Set** - Peter Lee, Slinger High School
- **Cup** - Brandon Becker, Grafton High School
- **Yoyo** - Josh Schwatz, Wauwatosa East High School
- **Candle Holder** - Luke Smallish, Grafton High School
- **Candy Dish** - Alan Stoller, Grafton High School





BotsIQ Wisconsin April 12th Competition Sponsors



A big **THANK YOU** to **ALL** of our **Sponsors, Volunteers and BotsIQ Instructors!** With your hard work and dedication this event was a huge success. We could not have done it without you.

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- Waukesha County Technical College



Instructors receiving their BotsIQ Trainer certificates at the April 2, 2008 member meeting: Pat Yunke, MATC, Pete Spangler, Mukwonago HS, John Puhl, J.P. Pattern, Gene Szymaszek, Germantown HS.

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Green Computers

Welcome to Computer Bits, a series of articles on computers and network information. This month's article is about "Being PC Green". I found some interesting information on recycling computers in PC Magazine's April 2008 issue.

With the ever changing landscape of computers it's getting more and more important to recycle used computer and electronic equipment. It's also important to make sure that where you take your equipment for recycling is actually recycling them and not shipping them overseas for burial in landfills.

Here are a few interesting facts sprinkled throughout the issue:

- ◆ As little as 0.014 gram of mercury is enough to contaminate the fish in a 20 acre lake. The 300 million computers that have already been discarded contain enough mercury (about 0.5 gram each) to poison the Great Lakes eight times over.
- ◆ One-third of all consumer trash is product packaging.
- ◆ PCs contain gold too: There's more gold in 1.1 tons of PC scrap electronics than in 17 tons of gold ore.
- ◆ If you buy a new system from Apple or Dell, the firm will recycle your old computer regardless of manufacturer.
- ◆ Between 2 and 4 million tons of e-waste from the United States winds up overseas each year for low-tech recycling. That weight is the equivalent of over 500,000 Hummer H2s.
- ◆ A pile of our obsolete computers could make a 22-story mountain that covers the entire 472 square miles of the city of Los Angeles.
- ◆ Unplug! Each year in the U.S., electronic devices that are turned off but not unplugged use electricity worth \$3 billion.

The issue has many more facts and good information on making your PCs green. It would be well worth picking up an issue and reading it.

If you have a computer or network question you'd like answered and you think others would like to know the answer too, please forward it to me. My email address is megert@wi.rr.com, my phone number is 262-679-7704 and my fax number is 262-679-7664.

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Meeeting minutes for the TDMAW member meeting on April 2, 2008. 16 Representatives from ten member companies were present and one Retired member. Eight others were also present: NTMA and AMBA members and BotsIQ instructors from Germantown and Mukwonago high schools. All were in attendance by special invitation from the Board. President, Al Weiss, welcomed all.

The meeting was held at the new MATC ECAM Center. Members were invited to tour the \$9 million facility that TDMAW helped fund with a \$24,000 donation over three years. The new BotsIQ Wisconsin arena was on display and members were invited to spar with two sample Shop Bots.

Apprenticeship. Ken Heins reported that he will be a judge at the Wisconsin SkillsUSA competition in Madison on April 9th; they could use another volunteer judge if anyone is interested.

Al Weiss reported that he has been traveling around southeast Wisconsin to assist with SkillsUSA CNC competitions. Assisting instructors in their own high schools allowed students to use their own equipment. The competitions were based on “reverse engineering” and CNC projects.

Ken advised that in November 2007, State Apprenticeship Chair, Karen Morgan, expressed concern regarding low enrollment. The Committee is considering changing from a time-based system to a competency-based system. This would include online module-type studies. However, concern was raised that studies outside the classroom may never be completed. It was suggested that we may want to form a committee to discuss and give recommendations to the State Board.

Membership Committee. John Puhl advised that voting on our three membership candidates would be postponed to the May meeting since there was not a quorum present. He also noted the recent increase in membership applicants.

Program and Events:

May 6th meeting will be at Alioto’s Restaurant. Topic: Internet Marketing and web page advancements. Speaker: Maureen Uy, Uy Creative Communications.

June 10th **June Outing.** Morningstar Golf Club for golf and dinner; Lake Michigan fishing with Reel Sensations Charter.

August 5th **Summer Golf Outing** at Riversbend Golf Course in Germantown.

Winter Retreat-2. Lynn Mahuta announced that a few couples are going to Couples Swept Away Jamaica in November. Pricing is very favorable at 50% off. Anyone interested in joining them should contact Lynn at Mahuta Tool Corp.

Group Buying Committee. Ken Mahuta reported:

- 2008 Rebate Status of actual receipts: \$3,484; \$241 less than expectation to-date.
- The committee is still considering prospective Partner, Midwest Metal Warehouse.

- The committee has been unable to determine a mutually agreeable meeting time with MSC to further discuss extending their TDMAW Partnership Agreement.
- The next committee meeting is 11:30am to 1pm, April 16th at Mahuta Tool Corp.

BotsIQ. Pat Yunke, MATC instructor and BotsIQ School Champion promoted the April 12th competition to be held at the MATC ECAM Center: Ten school teams are participating with 14 Bots. Five additional volunteers are needed from 10am to 3pm.

Al presented BotsIQ Trainer Certification certificates to school instructors and John Puhl, JP Pattern, who was also trained and certified to teach Explorer Post students.

April 2, 2008 Speakers: Al introduced Dorothy Walker, MATC. Dorothy thanked and welcomed all and introduced other MATC representatives to address the group:


- John Stilt, MATC Oak Creek Campus VP
 - ECAM purpose and accomplishments
- Dave Turner, Dean, MATC T&I Division
 - Value of BotsIQ at MATC
- Dr. Vicki Martin, MATC
 - BotsIQ at Discovery World

Retired Member, Jim Holtermann, won the Federated Insurance gift certificate for any WI restaurant.



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- ◆ Incorporate this information into a written emergency action plan for your business.
- ◆ Appoint leaders within your company to be responsible for implementing action plans.
- ◆ Train employees on the appropriate actions to take by conducting drills and testing equipment.
- ◆ Hold on-site sessions with local authorities.

Other ideas that may help protect your employees and property:

- ◆ Establish emergency communication and evacuation plans for employees.
- ◆ Establish facility shutdown and security procedures.
- ◆ Establish procedures to move records and inventory. Keep back-up records in a separate location.
- ◆ Work with a structural engineer to improve the strength of buildings.
- ◆ Establish safe shelter areas that can be accessed quickly, particularly for tornadoes and earthquakes.
- ◆ Determine effectiveness of audible warning systems for tornadoes.
- ◆ Determine if your facility is in a flood plain.
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Allen Weiss, Integrity Wire EDM Inc. owner and current TDMAW president, recently traveled around the state to chair two Wisconsin SkillsUSA competitions. He reported that it was a very rewarding opportunity; he met a lot of nice teachers and students and got to see several school shops.

Congratulation to the following competition winners:

Automated Manufacturing Contest

- Hartford took 1st place
- Watertown took 2nd place
- WI Lutheran took 3rd place

CNC Milling Contest

- Washington Park High School took 1st place
Student: Nathan Travis
- Case High School took 2nd place
Student: Corey Bolle
- Washington Park High School took 3rd place
Student: Ben Kohls
- Hartford took 4th place
Student: Weston Oswald

TDMAW Political “Conduit Fund”

Highlighted in the February Newsletter

Go to www.tdmaw.org **HOT TOPICS**

Questions, contact:

- Amy Boyer at (608) 258-9506, boyer@hamiltonconsulting.com
- TDMAW Office, (262) 532-2440, toolmaker@tdmaw.org

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First place winners are invited to compete at the SkillUSA National competition. The next one will be held in Kansas City this summer.

Annually, TDMAW donates \$500 to each Wisconsin contest division winner (CNC and Automated Manufacturing) to offset the cost of travel to the SkillsUSA Nationals.



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Grinding – Blanchard & Surface	Winter's Grinding Service, Inc. – Menomonee Falls David Winter, Sr. ~ Phone: (262) 703-0008	Members received 7.5% off shop (labor) rate. Rebates TDMAW for member purchases .
Heat Treating	Therm-Tech of Waukesha, Inc. Mary (Beth) Springer ~ Phone: (262) 549-1878	Payment Terms: 45 days; Very Attractive Pricing & Rapid Turnaround. Rebates TDMAW for member purchases.
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Steel Suppliers	Alro Specialty Metals – Menomonee Falls Web-site: www.alro.com Inside Sales ~ Phone: (800) 365-4140	Payment terms: 1/2% 10 days; net 30. Rebates TDMAW for member purchases.
	Crucible Service Centers - Butler Web-site: www.crucibleservice.com Shawn Gilleran ~ Phone: (262) 781-6710	See the latest edition of Tool Steel Prose in Hot Topics on www.tdmaw.org . Discounted member rates. Payment terms: 45 days; Rebates TDMAW for member purchases.
Supplies / Full Line	MSC Industrial Supply Company – Menomonee Falls Web-site: www.mscdirect.com David Roth ~ Phone: (262) 703-4000	Discounted member rates. Rebates TDMAW for member purchases.
Supplies / General	E.L. Simeth – Milwaukee Web-site: www.elsimeth.com Steve Simeth ~ (414) 771-9270	Competitive pricing. Members get 2% discount - 30 days; 1% discount - 45 days. Rebates go to TDMAW Scholarship Fund.

Members are urged to pay Partner invoices within terms.

~ Late pays are costing the TDMAW thousands of dollars each year as some partners disallow rebates for "late pays". Partners with payment terms are noted above. ~

All Rebates to TDMAW are based on member purchases.

When considering a purchase from a Partner, be sure to advise them that you are a member of TDMAW.

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Committee Chairs

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(see Membership Committee Info)

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Currently seeking a Chairman.
Board will oversee the selection.

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SURGEONS OF STEEL is a monthly publication of the Tool, Die and Machining Association of Wisconsin.

Please contact us for more information on:

- ? Advertising
- ? BotsIQ
- ? Shop Bots
- ? Group Buying Partnership
- ? Membership
- ? Scholarships

Article submissions and suggestions are welcome. Please send them to:

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Next BotsIQ Student Competition
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Wednesday, July 23, 2008