



# Des Moines WoodTurners

## Monthly Meeting Announcement and other Chapter News

October 2019

AAW Chapter 158

A 501(c)(3) Non-profit Organization

Bulletin 2019-10

Next **DES MOINES WOODTURNERS MEETING (AAW Chapter 158)** will be Saturday, October 12<sup>th</sup>, 1:00 pm, at the Woodsmith Store, 10320 Hickman Road, Clive, IA. See you then...



### OCTOBER'S PROGRAM: Rick Hutcheson -

After time in the Army, member **Rick Hutcheson** opened a grocery store, then an ice cream shop. He got back into carpenter work again in 1980 (having learned it from his grandfather when he was much younger) and eventually bought a scroll in 1988, a tool Rick has certainly mastered. Then in March of 2006, he purchased a wood lathe. He says that started a whole new hobby and found that the lathe can be a lot of fun once you start learning how to use it. Rick probably has more bowls in his garage than Walmart has in their warehouses – the only difference is that Rick made his himself - out of wood.

Have you ever wondered just how to turn a log or square piece of wood round and *without* a band saw, Rick will have the answer.

He will cover mounting the “chunk” of wood on the lathe, what tools to use, how to use those tools, and **how to do it safely**. If you do not have a bandsaw but still want to learn to turn wood, this is a good demo for you also. Rick plans to make a small wing bowl and a bowl from a “non-round” piece of wood.

### NEW MEMBERS - Please welcome the following members to our Chapter:

|               |            |                  |            |
|---------------|------------|------------------|------------|
| Mark Spaw     | WDM        | Bob Nauyoks      | Urbandale  |
| Ron Gold      | Pella      | Jon Lindgren     | Des Moines |
| Ron Hilliard  | Des Moines | Tony Raymer      | Des Moines |
| Ethan Cupp    | Altoona    | John Dickerson   | Grimes     |
| Steve Mumford | Waukee     | Kandra Dickerson | Grimes     |
| John Doy      | WDM        | Pat Collison     | Bondurant  |

### SHOW 'N TELL

Plan to bring your projects or “in progress” items to show (or ask about) regardless of your current skill level. Members like to see the work of others and hear about the challenges you faced creating your project as well as how you overcame them.

If you would also like to have any of your items critiqued, stop by the **Critique Table** after our monthly Chapter meeting. By providing you a helpful critique, it's hoped this will provide feed-back to improve your future work and assist you in developing new ideas. Without constructive feedback, you are not only destined to repeat past mistakes but also not to see new ways to improve your work. As always, this is strictly voluntary.

### 2020 MEMBERSHIP DUES by Dick Meuler, Membership Database

Because of our fund-raising efforts at the Iowa State Fair, I'm pleased to report that our annual dues renewals are able to stay at the **incredibly low rate of \$20 a year**. All members who joined the chapter since the start of our summer break are already paid up for next year. Due to possible schedule conflicts, I may be unable to attend the Oct meeting. If not, renewal dues checks can always be mailed to me or you can phone me with your CC number, your name as shown on the card, the expiration date, the zip code your CC bill is mailed to and the three digit security code on the back. Due to the excessive robo calls, simply leave me a voice mail with your name and phone number and I'll call you back to get the CC information. We can only accept Master Card, Visa, Discover & American Express cards. It's important to note that you can renew your dues for 1,2,3,4 or 5 years if you choose. Many have paid for multiple years in advance. Remember, make your checks payable to Des Moines Woodturners. [Mail dues to Dick Meuler, Des Moines Woodturners, 10050 NE University Ave., Runnells, IA 50237](#)

## SEPTEMBERS'S PROGRAM by Will Zitterich

Members **Dick Meuler, Dave Yearian, and Brenda Rekenhaller** led a group discussion to talk about the State Fair entries submitted by members last month. The panel asked the turners to tell what their inspiration was to make the piece, some of the challenges they faced and how they overcame those challenges.

Members in attendance learned a little more about some of the things the judges consider when judging pieces. Here are some of the comments Brenda shared from the judges:

- One of the first thing turners (and judges) do is look at the bottom to see how it was finished, so finish the bottom!
- If finishing your piece with a high gloss finish, it needs to be rubbed out to be smooth and without any scratches.
- Make the wall thickness even and a little thinner on the side walls of a bowl and a little thicker at the bottom.
- Don't wait until the last minute to finish a piece as it may mean you have to take shortcuts that will not enhance the appearance. In fact, it may be very obvious this happened.
- Threaded lids must fit well on threaded pieces.
- If you can get your finger inside a hollow form, make sure it is finished well and smooth.
- Don't over analyze a piece too much, just put it on the lathe and turn it.
- If your vessel has a finial, make sure they look good together. Otherwise leave the finial off.
- The base should be just large enough to look like it will properly support the piece, but not be too small to make the piece look top-heavy or unbalanced.

One turner overcame the challenges of worm holes by filling them with dyed sawdust. Another turner found the value of using wood hardener when hollowing out a difficult vessel with a number of voids. Another used black fabric in his piece.

The turners that showed their pieces were: **Tom Whalley, Rob Beattie, Charles Tadlock, LeRoy Monson, Alan Foust, Jack Kennedy, Donna Byers, Vikki Morain, Tom Baker, Mike Hamilton, Del Kramersmeier, Dick Meuler, Wendell Shellabarger, and Dennis Lind.** **Phil Loudenklos** displayed a beautiful mahogany table with carvings on the legs which was judged to be the Best of the Show.

## STATE FAIR BOOTH SALES NOT OVER TILL THE LAST TREE PENS ARE TURNED by Dick Meuler



An order for 25 Christmas Tree topped pens was submitted by member **Russ Dent** just days before the start of this year's Iowa State Fair. The thought was they could be turned as demonstration items. But the requirement for very long, small holes to accept the BIC refills wasn't a practical operation to do during the fair.

So, once the fair was over, a team of four members tackled the project. **Rob Beattie** cut enough blanks and a few spares. **Jerry Selover** drilled all the holes, **Dave Yearian** transported them to Jerry and then on to **Dick Meuler** who turned all twenty-five (25) pens, applied finish and inserted the refills.

It's always amazing how tasks are made easier when working together as a team. Russ, we hope the family and friends who get these this Christmas will enjoy your supporting gift.

## SEGMENTED WOODTURNING SIG

The folks interested in the Segmented SIG will once again meet immediately after our Chapter membership meeting in a "back corner" of the room. Whether you signed up initially or have not signed up but want to be part of this group, please plan to stay after the Chapter meeting. You are invited to bring samples of what you have made to share with others. For additional questions or assistance, members **Harold Haines** and **Jack Kennedy** have volunteered to be Mentors for the Segmented Special Interest Group (SIG). Contact Harold at either 941-400-0696 or by email at: [hhaines32@gmail.com](mailto:hhaines32@gmail.com) or Jack at 515-993-3652 or by email at: [jkennedywinterset@att.net](mailto:jkennedywinterset@att.net). They are really interested in helping you, so contact them today.

## SEPTEMBER'S NETWORKING EVENT

Another great crowd was on hand to learn from fellow woodworkers at the August Networking event. The next networking gathering will be **Wednesday, October 28**, at the Fred Maytag II Scout Center from 9:30 till 11:00. Remember, we need good turning blanks for sale, as well, so if you have some you are willing to donate, please bring it with you. The wood sales will start at 9:45. Also be sure to ask for a **FREE** drawing ticket at the cashier table when you arrive, but just one per member. We always have great door prizes. With no program, you're able to meet other woodturners and visit in an informal setting over a cup of coffee and donuts. Thanks to member **Dan Carlson** for setting up the refreshments! Members are also encouraged to bring in projects for feedback or turning tools you may have usage questions about. This event is for you to get your questions answered. As always, questions and problems brought before those present will likely bring you a variety of ~~correct answers~~ "opinions".

Come as often as possible. We'll continue the event if members show interest through their attendance. Watch each month for your e-mail reminder. As always, guests are welcome, too. For more information and map of where the Scout Center is, go to [http://www.dmwoodturners.com/?page\\_id=500](http://www.dmwoodturners.com/?page_id=500).

## FESTIVAL OF TREES & LIGHTS

Once again, we are calling on area woodturners, woodcarvers, and woodworkers to show case their creative talents and help raise money for a great cause by creating ornaments for a 7 ½ ft. evergreen tree to be displayed at the Festival of Trees and Lights. All decorating has to be completed on November 24<sup>th</sup>. and 25<sup>th</sup>

Please consider showcasing your special talents by donating ornaments for this great cause! The items should be light-weight and include a small eyelet or other means to secure the ornaments to the tree with wire. When completed, they can be dropped off in the designated box at the Woodsmith Store or at the October and November Des Moines Woodturners Chapter meetings. The drop-off deadline is **Friday, Nov 15th**. For questions, please contact Bob Pontious at [xdci22@gmail.com](mailto:xdci22@gmail.com).

## TURNING CLASSES

If you would like to put your name on the list for future basic spindle turning classes, or would be interested in attending other classes, please send an email to **Rob Beattie** at [educ@dmwoodturners.com](mailto:educ@dmwoodturners.com). Indicate if you are interested in the Basic Spindle Turning Class or let him know another interest for a class you might like to take. As an additional incentive, all classes are now using our new Jet 1221 variable speed lathes.



**WOODTURNERS LIBRARY NEWS** – Thanks to **Don Skarin** and **Tom George** for volunteering to operate the library. A listing of our entire library contents can be found on our web site at: [http://www.dmwoodturners.com/?page\\_id=84](http://www.dmwoodturners.com/?page_id=84). It also shows the replacement cost for material not returned. Remember, **RETURN ALL CHECKED OUT MATERIAL TO OUR LIBRARY VOLUNTEERS** Woodsmith seminar room on Saturday meeting days, or, give it to Tom W. or Dick M. at the Scout Center meetings. Leaving them anywhere else may result in lost material and replacement cost fees. Do you have some items you are no longer using that other turners might enjoy? If so, bring them Saturday and donate them to our library. What you donate might be just what someone else was looking for, so please bring them with you to the next DMWT Chapter meeting.

## MEMBER BUY-SELL SERVICE

Do you have woodturning or woodworking related items you want to buy or sell? Send an e-mail with particulars including prices you want [pres@dmwoodturners.com](mailto:pres@dmwoodturners.com) and we'll send a notice out to all members with e-mail addresses on record.

### 2020 DUES RENEWALS (still only \$20) NOW BEING ACCEPTED

(If you joined the Chapter after Jun 15<sup>th</sup> of this year, your dues are paid for 2020)

Pay for up to five years in advance. Make Checks Payable to: Des Moines Woodturners

Mail dues payment to Dick Meuler, Des Moines Woodturners, 10050 NE University Ave., Runnells, IA 50237



## MENTOR PROGRAM

Please consider using our Mentor Program. Each mentor's strengths are noted along with their name and city location. Select who might be best to contact, based on your questions and how far they are from you. As volunteers, it will be up to the mentor to decide if they can help, whose shop will be used and what mentoring will look like based on the need. For more details about the program, go to: [https://www.dmwoodturners.com/?page\\_id=1241](https://www.dmwoodturners.com/?page_id=1241).

## CHUCK DOWLER MEMORIAL WOODTURNING SCHOLARSHIP

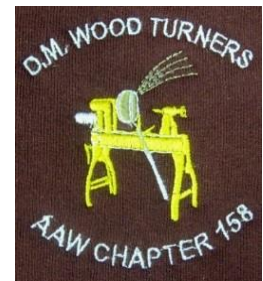
This scholarship is offered to those serious about woodturning who are willing to expand their skills and knowledge and bring those skillsets back to share with our members in a variety of ways – just as Chuck Dowler did. For more details about this program and/or to apply, go to: [https://www.dmwoodturners.com/?page\\_id=1351](https://www.dmwoodturners.com/?page_id=1351). The 2020 application deadline to apply will be Nov 9th, the day of the November meeting. Print out an application and mail or get to **Dick Meuler** at 10050 NE University Ave., Runnells, IA 50237. Call 515-991-8111 if questions (leave message if no answer).

## PROGRAM IDEAS

One of the biggest benefits of your Des Moines Woodturners Chapter membership is the value you receive by attending the monthly meetings and enjoying an informative program. If you have any thoughts or ideas about a program topic you or our members could benefit from, please contact the Director of Programs, Dave Rabe. He can be reached at 641-680-1129 or by email at [prog@dmwoodturners.com](mailto:prog@dmwoodturners.com). Chances are if you are interested, others probably would be as well. Please let Dave know what you would like to see.

## DES MOINES WOODTURNERS WEARABLES

Members wanting Des Moines Woodturners logos embroidered on clothing are advised to purchase shirts, sweatshirts or turning smocks of their choice and style. These must be BRAND NEW and UNWASHED and can be delivered to any officer or board member. When enough are collected to meet minimums, they will be taken to the embroiderer? Be sure to attach a note with your name to the collar of each garment submitted indicating if and how you want your name embroidered along with the Chapter logo. Costs to add the standard logo are \$8.00 per item. Personalized names can also be added for an additional \$6.00 per item. To learn more about this program, go to [https://www.dmwoodturners.com/?page\\_id=596](https://www.dmwoodturners.com/?page_id=596) or chat with **Rob Beattie** if you have questions by calling 515-282-4532 or [beattie.r@mchsi.com](mailto:beattie.r@mchsi.com).



## WOODSMITH PARKING - PLEASE REMEMBER

When arriving at Woodsmith Saturday, park at the far East and North sides of their parking lot. This leaves the areas closest to the entrance door for their normal Saturday store customers. If you have items to drop off for our meeting, drop them at the entrance and then go park in the designated areas. Woodsmith is gracious to let us use their facility. Please respect their parking rules so customers have easy access to the store on one of their busiest days of the week.

Thanks for your continued cooperation.

**..Bring a friend, neighbor or co-worker you think might enjoy woodturning..**



## WALNUT PIECES FOR TURNING

Do you have any pieces of wood shaped like this laying around in your shop? Would you like some? We have lots of pieces like these wood "blanks" that could be purchased at our monthly networking events. However, they are shaped like what you see. "But, how do I get them round for use on my lathe since I don't have a band saw"? Glad you asked! Come to the October Chapter meeting and member **Rick Hutcheson** will be demonstrating how easy it is to do. See you on the

October 12<sup>th</sup>. Now that you see how easy they are to turn round, come to the next networking event (Wednesday, October 28) – there will be some. If anyone else has any wood to donate, bring it with you on the 28<sup>th</sup>, too. Winter is coming and that means this is a great time to spend time in the shop.

**Meet the Officers and Volunteers**  
that work behind the scenes helping to  
make our Chapter successful...

### **Des Moines Woodturners, Inc.**

E-mail: [dmwoodturners@gmail.com](mailto:dmwoodturners@gmail.com)

Web: <http://www.dmwoodturners.com>

### **2019 BOARD OF DIRECTORS**

|                                  |                |              |
|----------------------------------|----------------|--------------|
| <b>President</b>                 | Tom Whalley    | 515-321-6323 |
| <b>Vice President</b>            | Will Zitterich | 515-232-1765 |
| <b>Treasurer</b>                 | Tom Baker      | 515-249-7503 |
| <b>Secretary</b>                 | Donna Byers    | 515-360-5894 |
| <b>Dir Education/<br/>Safety</b> | Rob Beattie    | 515-282-4532 |
| <b>Dir Programs</b>              | Dave Rabe      | 641-680-1129 |

### **Membership Brochure – Click Link**

[http://www.dmwoodturners.com/?page\\_id=399](http://www.dmwoodturners.com/?page_id=399)

### **2019 CHAPTER VOLUNTEERS**

|                       |   |
|-----------------------|---|
| <b>A-V Producer</b>   | Tom Baker *                                 |
| <b>Cameras</b>        | Tom Baker<br>Craig Wyckoff                  |
| <b>Greeter</b>        | Vikki Morain                                |
| <b>Assist/BU</b>      | Donna Byers                                 |
| <b>Librarian</b>      | Don Skarin                                  |
| <b>Assistant</b>      | Tom George                                  |
| <b>Mentoring</b>      | Will Zitterich                              |
| <b>Maintenance</b>    | Dave Yearian<br>Leroy Monson                |
| <b>Membership</b>     | Dick Meuler *                               |
| <b>Segmenting SIG</b> | Harold Haines<br>Jack Kennedy               |
| <b>Newsletter</b>     | Tom Whalley                                 |
| <b>Photographers</b>  | Gil Lea<br>George Takacs                    |
| <b>Refreshments</b>   | Tad Tadlock *<br>Dan England<br>Dan Carlson |
| <b>Programs</b>       | Dave Rabe<br>Jim Reynolds<br>Brian Simmons  |
| <b>State Fair</b>     | Rob Beattie *                               |
| <b>Webmaster</b>      | Jim Bergeson                                |

\*Training Team Instructor

...but we could still use your help

### **HOW CAN YOU VOLUNTEER?**

What can you you do to help make us better?

Please send your thoughts or  
Ideas of what you can do to:

[pres@dmwoodturners.com](mailto:pres@dmwoodturners.com)

## **What's Ahead – Chapter and Related Activities**

Here's what's happening this month...

- ☒ Tues, Oct 8, 2019 – Des Moines Woodworkers Association - meet at The Woodsmith Store at 7:00 p.m.
- ☒ Sat, Oct 12, 2019 – **Des Moines Woodturners Chapter meeting and demo at The Woodsmith Store, 1:00 p.m. Program: Rich Hucheson will demonstrate making a bowl blank on the lathe and turning a small winged bowl.**
- ☒ Wed, Oct 23, 2019 – **Des Moines Woodturners Informal Networking meeting from 9:30 – 11:00 am.** Boy Scout Center, 6123 Scout Trail, Des Moines (1st building south of Loffredo Produce off SW 63rd St.)

... and for the rest of 2019!

- ☒ Sat, Nov 9, 2019 – **Des Moines Woodturners Chapter meeting and demo at The Woodsmith Store, 1:00 p.m. Program: Stacey Nehl on pyrography. (We might see her again in the coming months for another program)**
- ☒ Tues, Nov 12, 2019 – Des Moines Woodworkers Association - meet at The Woodsmith Store at 7:00 p.m.
- ☒ Wed, Nov 27, 2019 – **Des Moines Woodturners Informal Networking meeting from 9:30 – 11:00 am.** Boy Scout Center, 6123 Scout Trail, Des Moines (1st building south of Loffredo Produce off SW 63rd St.)
- ☒ Tues, Dec 10, 2019 – Des Moines Woodworkers Association - meet at The Woodsmith Store at 7:00 p.m.
- ☒ Sat, Dec 14, 2019 – **Des Moines Woodturners Chapter meeting and demo at The Woodsmith Store, 1:00 p.m. Program: To be announced.**
- ☒ Wed, Dec 25, 2019 – **Des Moines Woodturners Informal Networking will NOT be meeting. Enjoy Christmas day with your family!**

**HAPPY 2020!**

- ☒ Sat, Jan 11, 2019 – **Des Moines Woodturners Chapter meeting and demo at The Woodsmith Store, 1:00 p.m.**
- ☒ Tues, Jan 14, 2019 – Des Moines Woodworkers Association - meet at The Woodsmith Store at 7:00 p.m.
- ☒ Wed, Jan 22, 2019 – **Des Moines Woodturners Informal Networking meeting from 9:30 – 11:00 am.** Boy Scout Center, 6123 Scout Trail, Des Moines (1st building south of Loffredo Produce off SW 63rd St.)
- ☒ Sat, Feb 8, 2019 – **Des Moines Woodturners Chapter meeting and demo at The Woodsmith Store, 1:00 p.m.**
- ☒ Tues, Feb 11, 2019 – Des Moines Woodworkers Association - meet at The Woodsmith Store at 7:00 p.m.
- ☒ Wed, Feb 26, 2019 – **Des Moines Woodturners Informal Networking meeting from 9:30 – 11:00 am.** Boy Scout Center, 6123 Scout Trail, Des Moines (1st building south of Loffredo Produce off SW 63rd St.)

**2020 Iowa State Fair is from August 13 – 23, 2020  
It's not too early to start making things...**

## CHAPTER DIRECT WEB LINKS – Below are a few direct links to our Chapter web site.

- 🔗 Mentor Program - [https://www.dmwoodturners.com/?page\\_id=1241](https://www.dmwoodturners.com/?page_id=1241)
- 🔗 Chuck Dowler Memorial Woodturning Scholarship - [https://www.dmwoodturners.com/?page\\_id=1351](https://www.dmwoodturners.com/?page_id=1351)
- 🔗 Woodturning Article and Plan Links - [http://www.dmwoodturners.com/?page\\_id=90](http://www.dmwoodturners.com/?page_id=90)
- 🔗 Chapter Library contents - [http://www.dmwoodturners.com/?page\\_id=84](http://www.dmwoodturners.com/?page_id=84)
- 🔗 Contact board members and volunteers - [http://www.dmwoodturners.com/?page\\_id=126](http://www.dmwoodturners.com/?page_id=126)
- 🔗 Download Membership Application form - [http://www.dmwoodturners.com/?page\\_id=399](http://www.dmwoodturners.com/?page_id=399)
- 🔗 Download or view Scout Center Networking Info - [http://www.dmwoodturners.com/?page\\_id=500](http://www.dmwoodturners.com/?page_id=500)
- 🔗 View or download photos from meetings - [https://www.dmwoodturners.com/?page\\_id=1417](https://www.dmwoodturners.com/?page_id=1417)

## BULLETIN BOARD

### ➡➡➡➡➡➡➡➡ SAVE THE DATES ⬅⬅⬅⬅⬅⬅⬅⬅ AAW ANNUAL INTERNATIONAL SYMPOSIUM SCHEDULE

Louisville, KY - 34th Annual International Symposium - June 4-7, 2020

Omaha, NE – 35th Annual International Symposium – July 15-18, 2021

## DISCOUNT SUPPLIER INFO

Before they ring you up, please show discount suppliers your **Des Moines Woodturners** membership card.

**Woodsmith Store** at 10320 Hickman Road, Clive offers 10% discount to members except for sale items and power tools or things with a cord. If you're in doubt, ask a sales associate. M–F 9 to 7, Sat 9-5, Sun 11-4. Phone: 254-9494



**Acme Tools** at 629 SW 9th St. in Des Moines offers a 10% discount to members except for sale items and power tools or things with a cord. If you're in doubt, ask a sales associate. M–F 7 to 5:30, Sat 8-5:30. Phone: 244-4189

**Renewal by Andersen** at 517 Railroad Ave. in WDM (Valley Junction) offers 5% discount on top of any other promotion(s) for home/business replacement windows and doors. Mon – Fri 8-5. Phone: 515-274-9700

**Tandy Leather Factory** at 5041 NE 14th St., Des Moines offers near 50% discounts on non-sale items such as dyes, adhesives, leather, leather making supplies, tooling and lots more. Current hours are 9 till 6 Mon thru Fri and 9 till 4 on Sat. Phone: 265-6521



**True Value Hardware** at 63rd and Grand in WDM offers a 10% discount on most non-sale items. If you're in doubt, ask a sales associate. Known for having nearly anything you'd ever want especially in hardware and fastener area. Hours Mon thru Fri 7 to 8, Saturday 7 to 6 and Sunday 9 to 5. Phone: 279-9905.

## BUY LOCAL when you can, Mail Order when you have no other choice!!

**Hartville Tool** - <http://www.hartvilletool.com/> 800-345-2396 15% discount off regularly priced items but ONLY when purchasing direct from Hartville Tool at: [www.hartvilletool.com](http://www.hartvilletool.com/), by phone or by mail. Free shipping on all orders, no minimum purchase. See following link for ordering instructions: <http://www.dmwoodturners.com/wp-content/uploads/2018/03/HT-Club-Discount-Program-Member-Buying-Instructions-NEW...pdf>

**METRO HARDWOODS** <http://www.metrohardwoodsinc.com/home.html> at 4243 S Noland Rd, Independence, MO 64055. 10% off hardwood lumber and plywood, pen kits and blanks and much more. Only valid for in-store purchases.

**WOODCRAFT** at 8645 Bluejacket Road, Lenexa, KS 66214, Phone: (913) 599-2800,

Email: [Kansas-retail@woodcraft.com](mailto:Kansas-retail@woodcraft.com) WEB: <http://www.woodcraft.com/stores/store.aspx?id=316>

10% discount supplier for woodturning tools, supplies & accessories not sold locally. Show your DMWT membership card in store for discount on most items except tools with a cord or battery and other selected premium and sale items. Only valid for in-store purchases.

Have you had any of these changes?

PHONE NUMBER change?

E-MAIL ADDRESS change?

MAILING ADDRESS change?

Send changes to [dmeuler@gmail.com](mailto:dmeuler@gmail.com)

or call him at: 515-991-8111

If you **SEE** something,  
**SAY** something



# ARE YOU WEARING A FULL-FACE SHIELD WHEN YOU TURN?

## SAFETY MATTERS:

From the Eye of a Survivor AW, vol 29, no 3 2014

## ASSESS YOUR RISK

Lynne Yamaguchi

Lynne forgot to put her face shield back on after answering a phone call. Take a look at Lynn's account of her accident.

For the short form of what happened, click:

<http://lynneyamaguchi.com/index.php/2012/09/28/an-accident/>

If you want the long form, but be **warned**, it is very graphically detailed!

[http://lynneyamaguchi.com/Yamaguchi\\_SafetyMatters.pdf](http://lynneyamaguchi.com/Yamaguchi_SafetyMatters.pdf)



My riot helmet and half-mask respirator

Photo: Karen Barber

1. Choose an unturned blank that is typical of what you turn. Weigh it and a finished object of similar size, using kilograms as your unit. Divide the weights—half, a third, a quarter, a fifth—to estimate the weight of typical fragments.
2. Convert the diameter of your blank and object to meters and multiply by  $\pi$  (3.14) to get their circumference.
3. Choose a few lathe speeds typical of what you would use for a blank of your chosen size. Divide each lathe speed by 60 to convert it to revolutions per second.
4. Multiply the circumference by the converted lathe speeds to get the velocities in meters per second.
5. Find the kinetic energy (the energy of an object in motion) of the potential projectiles by multiplying mass times velocity<sup>2</sup> times  $\frac{1}{2}$ , or  $\frac{1}{2}mv^2$ . In other words, plug the velocities and the estimated weights of various fragments into the following formula:  
$$0.5 \times \text{kg} \times \text{m/sec}^2 = \text{joules}$$

## Comparison of kinetic energy values

| Regulatory test or example                      | Condition  | KE (joules) |
|---|--|-------------|
| Z87.1 non-impact test                           | 1" steel ball dropped from 50"                           | 0.8         |
| Z87.1 high-velocity impact test: glasses        | ¼" steel ball traveling 150 ft/sec                       | 1.1         |
| Z87.1 high-velocity impact test: faceshield     | ¼" steel ball traveling 300 ft/sec                       | 4.4         |
| Z87.1 penetration test                          | 500-g pointed projectile dropped from 50"                | 6.2         |
| AS/NZS 1337.1 high impact resistance test       | 6-mm 0.86-g steel ball traveling 1                       | 6.2         |
| EN 166 medium energy impact test                | 20 m/sec   |             |
| AS/NZS 1337.1 extra high impact resistance test | 6-mm 0.86-g steel ball traveling                         | 15.5        |
| EN 166 high energy impact test                  | 190 m/sec  |             |
| 0104.02 impact test                             | 5.1-kg assembly traveling 6.6 m/sec                      | 111.1       |
| 0104.02 penetration test                        | 3-kg pointed striker dropped from 3.00 m                 | 88.2        |
| My accident                                     | 1-kg fragment of 10"-dia. vessel turning at 1200 rpm     | 127.2       |
| Bowl fragment 1                                 | 0.05-kg fragment of 7"-dia. bowl turning at 1200 rpm     | 3.1         |
| Bowl fragment 2                                 | 0.05-kg fragment of 7"-dia. bowl turning at 2200 rpm     | 10.5        |
| Platter fragment 1                              | 0.05-kg fragment of 12"-dia. platter turning at 1200 rpm | 9.2         |
| Platter fragment 2                              | 0.2-kg fragment of 12"-dia. platter turning at 1200 rpm  | 36.6        |

(Notice that, in contrast to mass, velocity affects kinetic energy exponentially.)

6. Compare the numbers you get with the following figures:
  - 4.4 joules: the impact standard for American faceshields
  - 15.5 joules: the impact standard for European ("high energy resistant") and Australian and New Zealand ("extra high impact resistant") faceshields
  - 111.1 joules: the impact standard for American riot helmets

Is your faceshield adequate?

## AAW GUEST MEMBERSHIP PROGRAM CONTINUES

By signing up for a complimentary Guest membership, you can have limited access to a sampling of AAW resources for a full **60 days**. You'll be able to explore what the AAW has to offer, kick our tires, and hopefully decide to become a full-fledged, paid AAW member to benefit from everything the AAW has to offer. Sign up at: <https://www.woodturner.org/page/GuestMemberLanding>.



## Woodturning FUNdamentals

<https://www.woodturner.org/page/FUNdamentals>- **New turners — this site is for you.** The world of woodturning is large, complex, and continually growing. In order to enter that world safely and confidently, you need to learn a few basics: How to sharpen your tools, how use the different tools properly, and above all how to work safely. This site is designed to point you to helpful articles and videos by some of the world's most talented and successful woodturners.

## AAW PROJECTS AND ARTICLES AT YOUR FINGERTIPS

Visit the home page: <http://www.woodturner.org/>

## WOODTURNING MARKETSPACE

Check out the following page on the AAW website. It contains links to over 120 suppliers of woodturning related items from equipment to tools, supplies, wood, schools, and services.

<http://www.woodturner.org/page=Marketspace2>

You may also want to check out exclusive offers, discounts and promos for AAW members at

<https://www.woodturner.org/page/MktspOffers2>

## AAW EDUCATIONAL GRANTS

The application process (for members) is open for 2020 Education Grants through December 31, 2019. Grants may be awarded to individuals, Chapters, and other groups for woodturning education endeavors. Learn more one the AAW website at: <https://www.woodturner.org/page/FinancialGrantApplication>.

## AMERICAN ASSOCIATION of WOODTURNERS (AAW)

If you are an avid woodturner, we would recommend an AAW membership because it offers you many woodturning resources including access to all previous issues of American Woodturner, the AAW Journal of articles, plans and woodturning techniques, six NEW issues of American Woodturner a year along PLUS six issues of the digital Woodturning FUNdamentals and many other learning resources and opportunities. Check them out at <http://www.woodturner.org>

## AAW MEMBERSHIP BENEFITS – JOIN or RENEW TODAY

<http://www.woodturner.org/resource/resmgr/MemberBenefits/MemberPublicationsServices20.pdf>



**Turn to your Passion**

**American Association of Woodturners**

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Saint Paul MN 55102

651-484-9094 [inquiries@woodturner.org](mailto:inquiries@woodturner.org)

WEB SITE: <http://www.woodturner.org/>

Get involved with **YOUR** AAW Woodturning Chapter and get more **Bang** for your Bucks!  
You might be surprised just how rewarding this experience can be.