



# Minnesota WoodTurners Association

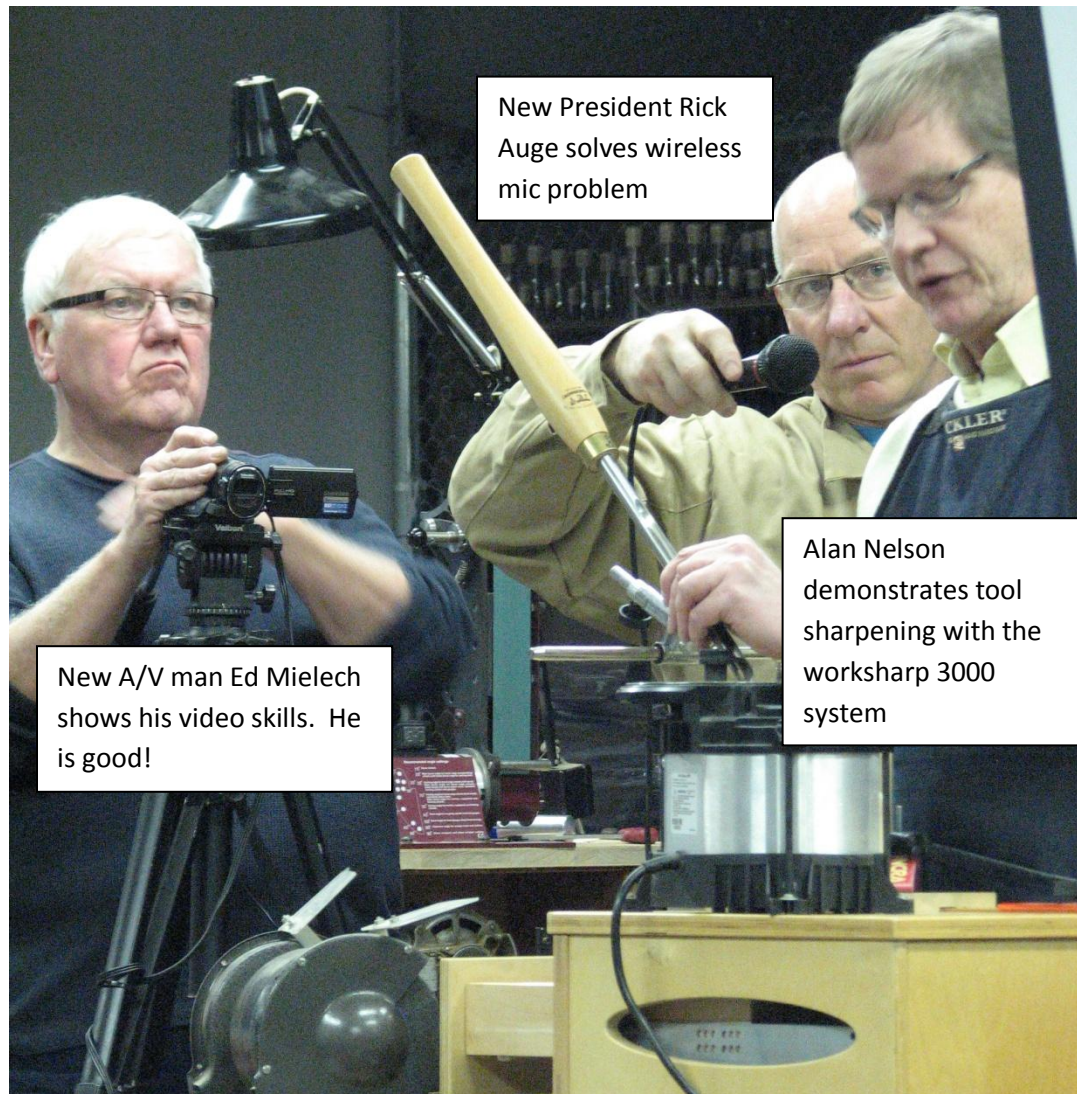
A LOCAL CHAPTER OF THE AMERICAN ASSOCIATION OF WOODTURNERS

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**AAW** | AMERICAN ASSOCIATION  
OF WOODTURNERS

## JANUARY 8, 2015 MEETING TOPIC: GRINDING SYSTEMS



New President Rick  
Auge solves wireless  
mic problem

New A/V man Ed Mielech  
shows his video skills. He  
is good!

Alan Nelson  
demonstrates tool  
sharpening with the  
worksharp 3000  
system

## Minnesota Woodturners Association

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**EDITOR’S NOTE: For those attending the class “Everything You Wanted To Know About Woodturning,” Jim Jacobs has provided homework on pages 18, 19, and 20. Please review before coming. For others, this provides a great review of some turning tips.**

## II. Upcoming Events

### January 2015

Tuesday January 13 Board Meeting: Salvation Army, 7-9 PM

Wednesday January 21: Sharpening Class: Neil Robinette, His shop 6- 9 PM

Friday January 23 1st Small Group by Craig Lossing, Rick Auge Shop 9- 3 PM

Saturday January 24 Large Group Demo by Craig Lossing University of Minnesota 9AM- 3PM

Sunday January 25 2nd Small Group by Craig Lossing, Rick Auge Shop 9- 3

Saturday January 31 Skew Classes, Jim Jacobs, Rick Auge Shop, 2 Classes 9-12 and 1-4

### February 2015

Tuesday February 3 MEMBERSHIP MEETING

Main Topic: Bob Puetz, HOW TO GLUE AND SECURE SEGMENTED TURNINGS and an articulated hollowing device. Location: Salvation Army, Time: 6:00 social. Meeting starts at 6:30. Wood raffle, library

Saturday February 7 EVERYTHING YOU WANTED TO KNOW ABOUT WOODTURNING,  
Jim Jacobs, Salvation Army 9:00 to 3:00

Tuesday February 10 BOARD MEETING Salvation Army, 7:00 -8:30 PM

Wednesday February 18 SHARPENING CLASS Neil Robinette, Neil's shop, 6:00-9:00 pm

Thursday February 19 SUCHI TRAY, Steve McClune, Rick Auge Shop 6-9 pm

Mid to Late February POSSIBLE 2nd SKEW CLASS Jim Jacobs Details TBD

#### **Note:**

1. Watch for MWA Blasts with times, places, and details on these events.
2. The Salvation Army: 2245 Prior Avenue North, Roseville, Mn
3. The U of Minn: E117 Regis Center for Art, 405 21st Avenue S, Minneapolis
4. Rick Auge's Shop: 5040 Hodson, Shoreview
5. Neil Robinette's Shop: 9625 Washburn Ave. N. Brooklyn Park



### III. President's Message



January 2015

Welcome everyone to the new year at MWA.

It is an honor to have been elected president of your club. I would like to thank everyone for their vote of confidence by electing me.

As the "new guy" never having been on the board there is a considerable learning curve. I find I am spending a lot less time turning than I would like to. Hopefully as things move along that will change.

I purchased my first lathe in 1978 and have turned off and on over the years as life has allowed me to.

Yet when I look at the monthly challenge and instant gallery, it reminds me that I might still be a novice turner.

We have a great board of directors in place for the upcoming year.

My immediate goals for the club include:

1. Enhancing member experience at the meetings.
2. Responsiveness to members turning needs which includes developing a Mentoring Program which our new VP Fred Kogler is heading.

Those of you who came saw changes at the last meeting. Some of them can be attributed to the results of the survey which Tom Peters organized in 2014. Others are due to be implemented.

A new microphone system should be in place for the February meeting.

Beads of Courage is running strong. We have just had a request from Mpls Childrens for 15 more bowls.

I am out of space.

MWA 2015 President Richard (Rick) Auge





## IV. Monthly Meetings

### A. Christmas Party

On December 12<sup>th</sup>, the club held its annual Christmas Party at Hope Presbyterian Church in Richfield. An excellent potluck dinner and good fellowship were enjoyed by over 100 people.

1. In addition, **turned door prizes** were contributed by members and awarded to all spouses, guests, singles, and significant others. The table of door prizes is shown below.



Here are a few of the folks and their door prizes



Ginger Robinette



Tom Gerber



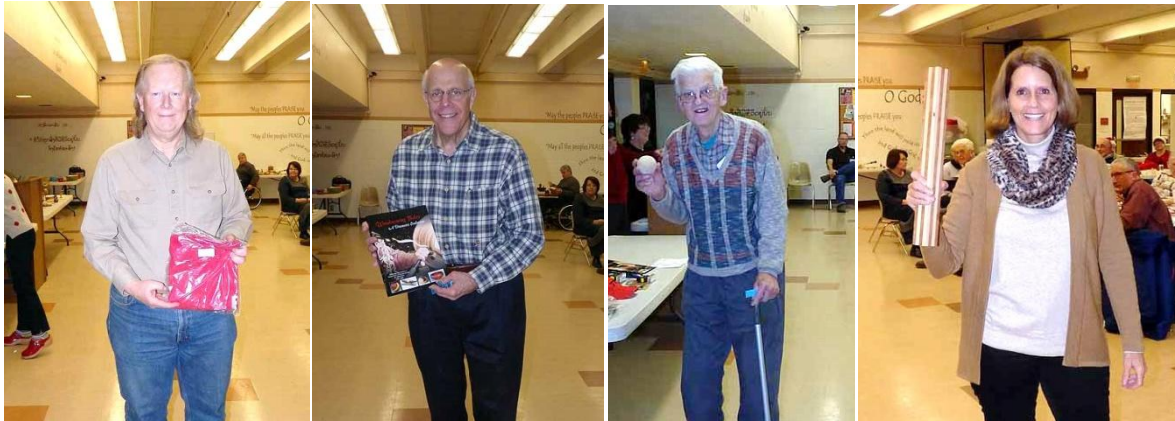
One very  
happy lady



Nancy Mages



2. After the award of door prizes, there was a **raffle for prizes of interest to woodturners**. These were quite popular as well. Some of the prizes and winners are shown below.



**Bob Meyer**

**Gary Novak**

**Greg Super**

**Kirstin Holtz**

The raffle raised over \$300. This money was donated to the Beads of courage program for children undergoing cancer therapy.

3. A **president's challenge** was held regarding Christmas Ornaments. The entries are shown below.





Some Prize Winners in the President's challenge are show below:



**Mark Debe**



**Bob Boettcher**



**Amy Swerdlick**



**Bob Puetz**



**Linda Ferber**



**Richard Messer**



4. A Gift Exchange was also held. In this event, those that wished to participate brought a turning to be given as a gift to another turner. Names were then selected in pairs and each pair exchanged the gift they had brought. Some gift exchanging is shown below.



**Jim Jacobs and Bob Boettcher**



**Linda Ferber and Roger Erickson**



**Gordon Fay and Steve Mages**



**Richard Messer and Kirsten Holtz.**  
He's asking, "where is the wine to go with the stopper?"



**Carol Magnuson and Tom Peters**





## 5. Special Recognition

### a. Neil Robinette

Since this was Neil's final meeting as president a group got together and made a special turning tool for him. The cutter is called "The Hercules" The wood was donated by Bob Jensen, the Art work was by Linda Ferber, the handle was turned by Tim Heil, the copper ferrules were done by Ken Kruizenga and, of course, the Hunter cutter donated by Mike Hunter. It is beautiful. However, Neil fully intends to roughen it up in his shop rather than hanging it on the wall. Pictures and description are below.



Neil proudly displays his new tool in his shop

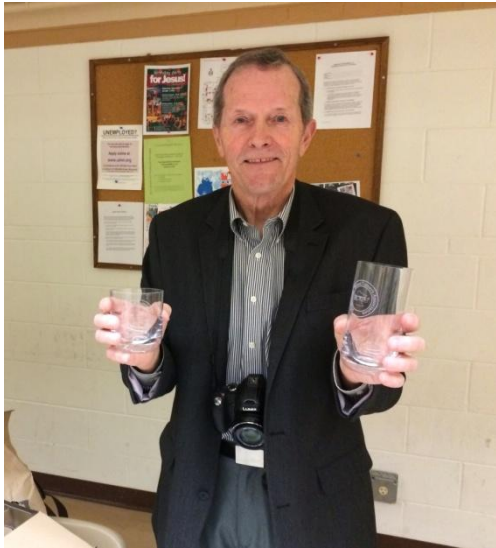
Working End of Tool



Views of Butt end of tool

An additional special recognition was presented to Neil that was a surprise. He received a set of double old fashioned glasses and a set of highball glasses from the board. Neil is shown checking the "feel" of each of the glasses below:





**Thank you so much, Neil. Your dedicated service, long hours and hard work have made your time as president very special for everyone.**

When I asked him about the glasses, Gar Brown explained, "In midyear I approached some of the board members with the idea that the club should present Neil with a symbol of appreciation for all his work for the club. Everyone seemed to think it was a great idea and after some discussion it was agreed that I would seek out and buy a nice set of double old fashioned and highball glasses taking care to get a nice shape and the "good feel in hand" that we turners all look for in our work.

I did so and then got the club logo laser engraved on the glasses to make them unique and special. .... and it was a real surprise at the Christmas party when Neil received them as he turned the reins over to Rick.

The board members individually donated for the cost of the glasses. I got the laser engraving done free of charge by my son Erik. The board members personally donated (no club monies were used) and presented the glasses to Neil on behalf of THE WHOLE CLUB.

#### **b. Bob Puetz**



Bob is stepping down after years of doing the A/V at club member meetings and professional demonstrations. Several members have commented that they joined the club because of the top notch live turning A/V that Bob provided. Neil Robinette noted that in the many pro shows he has attended, he has never seen A/V quality that exceeds Bob's. The A/V work has entailed coming early to set up and staying late to pack up. In addition, Bob has been unable to pay close attention to each presentation due to having to attend to the A/V. It has been a long, hard job that Bob has faithfully fulfilled.

In appreciation of his high quality work and long service, the MWA board awarded Bob a lifetime MWA membership.



## B. January Membership Meeting

### 1. Social



A long line formed to renew Memberships for 2015. If you haven't renewed yet, mail your \$30 check to the new MWA address PO Box 131622, Roseville 55113-9998 or see Paul Laes (in the orange shirt) at the February Meeting



New President Rick Auge and board member Todd Williams show no pregame jitters before the first meeting of 2015.



Dan Larson explains a high tech turning concept to Paul Anderson.

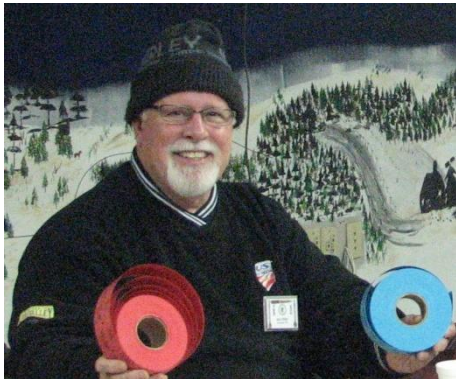


Tim Heil makes a point to Bob Jenson and Ken Kruizenga





## 2. New Raffle Process



Ron Miller will still sell tickets and the orange wood tickets stay the same. However, when you buy a blue tool ticket, you will get both parts of the ticket. When you get to the tool table, you will find containers beside each tool. Put one of your ticket in the container beside the tool you want most (see adjacent picture). For each tool, we will pick a ticket from each container. It will be a raffle for each tool. This change was made in response to your survey input.

## 3. Main Presentation: Sharpening Systems

### a. Overview, Alan Nelson

Alan provided an overview of the equipment and principles of sharpening along with some tips, tricks, and cautions. He recommends pre inking the grind surface and using a Raptor gauge to set the bevel angle. He does not hone turning tools because their benefit is soon lost when cutting. Here he demonstrates inspection of a ground edge by backlighting.



### b. Wolverine, Neil Robinette



Basic Wolverine System



Vari Grind Attachment



Neil says the Wolverine system is directed primarily at sharpening turning tools and notes that it is the system that is used in his sharpening class. It consists of various holding jigs and fixtures coupled to a bench grinder. It does both shaping and final edge sharpening of turning tools and is the most popular among turners. He recommends use of an 8", 1800 RPM bench grinder without a vari speed drive. Both aluminum oxide wheels and the newer CBN wheels work well. The total system cost is estimated at \$250-\$300.

Neil noted that many turners have made their own Wolverine system and that plans can be found on the internet.

#### c. Tormek, Tim Roseth

The Tormek is a versatile system with a vertical wheel using jigs to handle turning tools, knives, carving tools, and most sharpening. It is a very slow system (90RPM) and operates wet. It also has a honing function. It does not do shaping well. System cost estimate is \$800-\$900.



#### d. Sorbey ProEdge, Gary Novak

The ProEdge is a belt sander modified to sharpen many things using jigs and fixtures. The variety of belts available is impressive. Gary got his unit to sharpen his wife's garden tools and is happy with that application. He feels that the system is almost as good as the Wolverine. System cost estimated at \$600 to \$700.





e. Work sharp 3000 Alan Nelson

This system consists of a horizontal rotating glass disc with abrasive discs applied to the top and/or bottom. The grinding can take place on the top or bottom surfaces. When a slotted abrasive disc and is on the bottom and the tool is below as well you can see the grind in process. It is air cooled and speed of 580 rpm .



Alan says that the system makes an excellent edge for turning tools as well as a variety of wood tools. A number of jigs and fixtures are employed to cover each application. He notes that the tool is not good for shaping and that he uses a standard bench grinder for this. He also noted that 90% of his work is done with 220 grit abrasive. He cautioned not to purchase the work sharp 2000 machine for it is vastly inferior.

**4. President's Challenge**

The President's challenge for January was eccentric turning. The winners are shown below with their turnings. They are Rod Nelson, Linda Ferber, Ken Hallburg, and Ken Gustafson from Left to Right.



**President's challenge for February is a Bird House.**





## 5. Beads of Courage

In December Diane Puetz reports that from November 2013 to year end 2014 there has been a total of 142 bead bowls and 23 kendame (ball & cup) games made for BOC....

She said, "Amazing! The kids (and parents) love them!"

This January 14, 2015, she reports," We just got a request from Children's Hospital in Mpls for 10 to 15 bead bowls! It is exciting that they are giving them out and contacting us when they are ready for more. Bob and I will deliver them next Wednesday.... January 21st. "

"After that "bowl drop", we will have a few left to mail out for requests that come in for the BOC Distance Program.....so a big thank you to the woodturners for their generosity!"

**IT IS CLEAR THAT THE NEED FOR BOWLS OF COURAGE IS ONGOING. PLEASE CONTINUE TO SUPPLY THIS WORTHY CAUSE WITH MORE BOWLS.**

In January, the following bowls were submitted.



## V. MWA CLASSES

### A. Recent Classes.

No classes were scheduled for December, but due to demand, there was a third ornament class held. Below are pictures from the late November sharpening class.



**Chuck Sherffler, Gary James, Amy Swerdlick, Rod Nelson, Patrick Kraft, and Rick Auge**



**Rick demos sharpening a small skew on a belt sander**



**The sharpened skew is inspected**

Neil intends to hold a sharpening class every month at his shop on the third Wednesday 6:00-9:00



## B Upcoming Classes

As noted in the upcoming events a sharpening class is scheduled for Wednesday Jan 21 and a skew class is scheduled for Saturday January 31.

Take note that a special class devoted to beginning and intermediate woodturners is scheduled for Saturday February 7. If you are in this category please plan on coming. If you know someone who is considering becoming a wood turner, please invite that person. Jim Jacobs will be presenting a comprehensive over view that will be extremely beneficial to these folks. Details are presented below

### Everything you wanted to know about Woodturning

Sat. Feb 7<sup>th</sup> 2015, 9 AM to 4 PM

**Where?** Salvation Army building 2445 Prior Ave. N. Roseville MN.

**Cost?** : members, \$20, non members, \$30

Jim will be covering the following topics:

The morning session, **9-12AM**

Buying a lathe, what to look for.

Buying tools, sources, types and uses.

Wood science, kiln dried, green wood.

Setting up your shop space. Heating, lighting, and dust control.

Successful woodturning is about SUPPORT!

Support the lathe

Support the wood

Support the tool

Break for lunch, 12-1PM Several fast food locations nearby. Or bring your own.

Afternoon session, **1-4PM**

Chucking methods, basic finishing.

Jigs, tips, and gadgets

Jim will have items to set up and show.

Questions and answer time to end the day.

No need to registrar just join us for this informative demo

Questions?? contact Neil Robinette at [neilka@embarqmail.com](mailto:neilka@embarqmail.com) or call

763-639-1085  763-639-1085

[mnwoodturners.org](http://mnwoodturners.org)





Jim has asked that attendees review the following homework.

Jim Jacobs  
WoodmanMN@aol.com

### Woodturning Tips

- ❖ Don't buy a "set of tools". Sets are designed to sell to the general public. Wide shallow gouges and long, small gouges are not much use. Some tools are sold unhandled. Handmade handles look great and make tools easier to recognize quickly.
- ❖ There are two different types of turning. Faceplate and spindle, faceplate would include bowls and turnings mounted with the grain of the wood in a vertical plane. Spindle would include anything mounted between centers with the grain in a horizontal plane.
- ❖ Think of the wood as layers of "straws".
- ❖ Don't use cheap tools! High speed steel is just fine for the average wood turner. Carbon steel is alright but will require more frequent sharpening. Generally, the higher the cost, the harder the steel, and the longer it will stay sharp.
- ❖ Don't make tools from files, they are brittle and can break.
- ❖ Keep tools sharp at all times, it's very important to have one bevel, not multiple ones. Woodcraft sells an 8" slow-speed grinder which works well when combined with the wolverine grinding system.
- ❖ Never use a roughing gouge on faceplate work such as bowls. The end grain can catch and cause a bad accident. Also, do not use a skew for the same reason.
- ❖ The skew may be used flat as a scraper but the edge will dull fast. Shearing like a small plane will work much better. The skew should be ground with a slight radius on the end with the edge rounded to roll better on the tool rest. Leave the long edge square.
- ❖ Do not use a bowl gouge (deep fluted) on spindle work because the corners of the tool can catch.
- ❖ Shallow fluted spindle gouges with a finger nail grind also known as "detail gouges" may be used on bowls with bevel rubbing. This works nicely for smaller details and final cuts on the bottom of the bowl.

OVER



- ❖ Scrapers may be used for roughing cuts but they work best as a finishing tool. Lower the tool rest so the actual cutting is being done on center. Slightly lifting the handle and tipping it downward will make it less aggressive. Do not use a wide scraper as a roughing tool. The  $\frac{1}{2}$ " width scraper can be used for roughing. Thicker scrapers work better than thinner ones since they don't vibrate as much (picture a tuning fork!).

- ❖ The object when turning is to get the best finishing cuts as possible to reduce excessive sanding which tends to distort details.

- ❖ In wood turning three things must have support at all times!
- ❖ The lathe, the wood, and the tool.
- ❖ Supporting the lathe: the lathe should be mounted securely to the bench with the centers level with your elbows. Avoid bending over, good lighting is essential. A window is great or a swivel-arm drafting light works well. Do not work on a low-quality lathe. The cast iron mini lathes are very popular for a beginning wood turner.
- ❖ Supporting the wood: The wood must be held securely by a faceplate, by a chuck, or between centers. Use the tailstock as much as possible while faceplate turning, including bowls.
- ❖ Supporting the tool: The tool gets support from three places: your hands, the tool rest, and at the bevel when it rubs the wood. This all happens simultaneously. When using the skew and gouge the bevel rubs the wood directly behind the cut acting like a "depth stop", by slowly lifting the handle it will cut deeper.

- ❖ A sharp tool is safer than a dull one since it will not resist the wood. Tools may be used and work well straight from the grinder (think of the edge of a steak knife) Honing should be done for the best finish cuts.
- ❖ Most of all relax and enjoy the process! Listen to the wood as it is turned and let the tools do their job. Don't force the tools. Woodturning is an ongoing adventure, that's what is so fun about it!

VERY IMPORTANT - MEMORIZE



### Quick Tips

Jim Jacobs: WoodmanMN@aol.com

- Lathe centers should be level with elbows; Saves bending and back problems.
- Good lighting is important. A swivel arm light, with 60 watt small spotlight works well.
- Watch the shavings, should be nicely formed.
- Let the bevel rub with the skew and gouges, scrapers should have short bevels and be thick to prevent vibration. Keep all tools sharp! Tool rest should be above center when using gouges and skew, adjust so cutting is on center when using scrapers.
- Do not extend tool too far past the rest, catching and vibration will start. Keep rest smooth and free of nicks.
- Touch up tool on grinder and hone the inside of gouges and the skew, for the best finish cuts, tools must have one bevel, the bevel rides the wood during the cut. Make one smooth pass, working towards the center.
- Slow speed of lathe to sand. Avoid heat build-up and loosening glue joints.
- Make sure all glue joints are flat and clean, let all clamp-ups dry overnight.
- Watch the backside of the turning for shapes developing.
- Do not rush! Take a break once in a while, have several projects in progress and alternate between them.
- Round inside edge of skew and leave the long edge square.

### Safety Tips

- Always wear safety goggles or safety glasses. Wood dust can be harmful to your respiratory system. Use a dust mask or helmet and proper ventilation in dusty work conditions. Wear hearing protection during extended periods of operation.
- Tie back long hair, do not wear gloves, loose clothing, jewelry or any dangling objects that may catch in the rotating parts or accessories.
- Rotate your workpiece by hand to make sure it clears the tool rest and bed before turning the lathe on. Be sure that the workpiece turns freely and is firmly mounted. It is always safest to turn the lathe off before adjusting the tool rest.
- When using a faceplate, be certain the work piece is solidly mounted. Never use drywall screws, they are too brittle and can snap off. When turning between centers, be certain the workpiece is secure.
- Always remove the tool rest before sanding or polishing operations.
- Don't overreach, keep proper footing and balance at all times.
- Never leave the lathe running unattended. Turn power off. Don't leave the lathe until it comes to a complete stop.

### **C. Professional Demonstration**

Craig Loessing will lead two small groups and a large group this month. Both small groups are filled, but those interested in learning from Craig can attend the large group and the University of Minnesota, Regis Center for Art, 405 21st Avenue S, Minneapolis, 9:00 am to 3:00 pm.

