

March 2013

Mountaineer Woodturners

A chapter of the American Association of Woodturners

March Meeting

President John Sheets called the March meeting of the Mountaineer Woodturners to order at 10:00 on Saturday, March 9th, 2013. We had about 30 members present including four new members, Diane & RC Randolph, Jim Corbitt, and Mike Owens. A very warm welcome to all of you new guys and gal.

John Gregor reported \$5,024.95 in the Treasury. The new Secretary knew nothing and had nothing to report.

Byron Young reports that Kim Winkle will be our guest demonstrator on May 11 and the wives will be welcome to enjoy this program. We will move to the other room where it will be more comfortable and will be easier to see the demonstration. Larry Weese will be the in-house demonstrator for April 13 to make up for the scheduling conflicts for March. Byron Young filled in for him for this meeting. T-shirts with the AAW logo on the front and the Arts & Craft Fair logo on the back are now available to order. Approximate cost will be about \$12. See attached sketch of the T-shirts.

John Sheets reports we have purchased club insurance through the AAW at a cost of \$90 for the year. Art Liestman has asked if we would like to have a session with him some afternoon or evening between November 11-16. After discussion, we will not extend in invitation at this time.

Warnie Lore provided in depth information on the difference in sandpaper grit designation between USA codes and British codes. They are different and should not be mixed. Use one or the other when buying or using sandpaper. See the information at the end of the newsletter.

Gary Gibbs reports he is missing a small carbide hollowing tool. If anyone has information please let him know. He might be offering a reward, maybe as much as \$1,000,000 – maybe.

Show and Tell



John Gregor somehow turned a little brown jug from a chunk of maple. Quite a feat to turn with that handle.



Fred Belknap turned an apple bowl and an ash bowl.

Gary Gibbs brought a spalted maple bowl and a scalloped bowl from an unknown source. He then cored a smaller bowl from the scalloped bowl. Nice work.



Warnie Lore turned a soft maple bowl and also three eggs from a Christmas tree



Stan Cook turned a square bowl similar to his prize winning bowl from last month. This one is made from zebra wood and walnut.



These natural edged bowls are from the Jerry Smith collection, butternut and hickory.



Mike Owens had a spalted curly maple bowl.

Byron Young came up with a painted, decorated bowl, originally cherry, and a nice pepper mill.



And last, but certainly not least, Robert Burford claims his two bowls are mango and tanello (?)



Byron Young showed us all the secrets to turning magnificent pepper mills. As you can see, he is able to turn on two lathes at one time, with supervision from David Jones. What a man!



finished project is another nice pepper mill.

The

The next Mountaineer Woodturners' meeting is scheduled for 10:00 Saturday, April 13, 2013. Larry Weese will demonstrate the techniques he uses to add corian rims to his turned bowls.

Remember to pay your 2013 dues if you have not done so.

The following is information provided by Warnie Lore on sandpaper grits in USA and Britain.

Grit sizes

Grit size refers to the size of the particles of abrading materials embedded in the sandpaper. Several different standards have been established for grit size. These standards establish not only the average grit size, but also the allowable variation from the average. The two most common are the United States CAMI (Coated Abrasive Manufacturers Institute, now part of the Unified Abrasives Manufacturers' Association) and the European FEPA (Federation of European Producers of Abrasives) "P" grade.

<u>FEPA designation</u>	<u>CAMI designation</u>	<u>Average particle diameter (um)</u>
P12		1815
P16		1324
P20		1000
P24		764
	24	708
P30		642
	30	632
	36	530
P36		538
P40	40	425
	50	348
P50		336
	60	265
P60		269
P80		201
	80	190
P100		162
	100	140
P120		125
	120	115
P150		100
	150	92
P180	180	82
P220	220	68
P240		58.5
	240	53.0
P280		52.2
P320		46.2
P360		40.5
	320	36.0
P400		35.0
P500		30.2
	360	28.0
P600		25.8
	400	23.0
P800		21.8
	500	20.0
P1000		18.3
	600	16.0
P1200		15.3

Sandpaper

Choose the Right Sandpaper

Sandpapers are commonly graded as coarse (40-60 grit), Medium (80-120), Fine (150-180), Very Fine (220-240), Extra Fine (280-320) and Super Fine (360 and above). The CAMI-scale tolerates a wider range of grain sizes within the definition of 180-grit than the P-scale. P-graded abrasives give more consistent cuts with fewer stray scratches from oversized minerals.

Grading Sandpaper:

There are two primary types of sandpaper: commercial grade and industrial grade. Industrial grades use higher quality materials for the components.

Additionally, you may see sandpapers that are rated as either "open-coat" or "closed-coat". The difference is that closed-coat sandpaper has the grit particles grouped more closely together, where open-coat sandpapers have larger gaps between the particles. As a general rule, open-coat is typically better for woodworking, as it clogs less often, particularly when working with softwoods that contain more resin.

Types of Abrasives:

There are four main types of sandpaper available, but not all are appropriate for woodworking. Harder and sharper minerals cut deeper scratches and, consequently, sand the wood faster. But these deep scratches leave a coarse finish, whether you sand with or across the grain. Softer minerals within the same grit size will cut far more slowly but leave a smoother finish. For example, if you sand a board on one side with a 120-grit ceramic, the hardest abrasive mineral, and the other side with 120-grit garnet, the softest, you will be able to feel a distinct difference between the surfaces. It will seem as if you sanded the two sides with different grit sizes.

Garnet paper is usually a brownish-red color, which is commonly used in woodworking. It will not sand wood as quickly as other sandpapers, but leaves a better finish. Garnet is an excellent choice for finish sanding. Garnet is the only natural abrasive mineral still widely used for woodworking. Like aluminum oxide, it is blocky in shape. Unlike aluminum oxide, it is non-friable, not very tough and dulls very quickly. This is not necessarily a defect. The softer cut of a garnet paper, though slow, will produce the smoothest finish of all the abrasives within a given grit size. Because it is so soft, garnet will not leave pigtail-like scratches the way an aluminum oxide will when used on a random-orbit sander. This makes it well-suited for final sanding of wood surfaces. Garnet is an excellent choice for final sanding end grain and blotch-prone wood. Garnet's peculiar tendency to burnish wood—close off pores—makes a stain penetrate far more evenly though less deeply.

Aluminum Oxide is another common type of sandpaper for woodworking projects. It is the type of paper most often used in power sanders. Aluminum Oxide is more durable than Garnet paper, but doesn't leave as nice of a finish. Aluminum oxide is a sharp and blocky mineral. It is the most common, all-purpose woodworking abrasive, and for good reason. It is the only abrasive mineral that fragments under the heat and pressure generated by sanding wood. This characteristic is called friability and is highly desirable. As you sand, aluminum oxide renews its cutting edges constantly, staying sharp and cutting much longer than other minerals. Aluminum oxide is also a relatively tough abrasive, which means that its edges won't dull much before they fragment. Its friability and toughness make aluminum oxide the longest lasting and the most economical mineral.

Silicon Carbide paper is typically a dark gray or even black. This type of paper is used primarily for

We are adding a new FOR SALE section to our newsletter and a WANTED section. If you want to sell something or are looking for something, this is the place.

FOR SALE



Delivered Dec. 2010 Works fine, the indexing holes are broken but I drilled a hole on the other side and it works. Variable speed goes down to about 60rpm and top speed is around 3000. RPM read out, about 550 lbs. I do a lot of work with this lathe, from pens to bowls over 17". Swing is 18" Asking \$800.00 which is about half new.

**Fred Belknap
304-364-8872
fbelknap@gmail.com**



**For Sale: 12 inch table saw – 220v single phase - \$200
15 inch floor model drill press – ½ HP (new motor) \$150
Contact: Byron Young 304-984-0389**



Several members have been included in a discount program with Klingspor's Woodworking Shop. If you want to continue to be a part of this program or if you would like to join this program, send me an e-mail within the next 30 days to be included.

TIME \@ "MMMM d, yyyy" March 23, 2013

In the past, your club has shown interest in our woodworking club and guild program. Our records show that we have not received an updated club listing. In order to maintain our database, we ask that you send us an updated list including new enrollments as well as past members who have not renewed their membership. We need an updated listing every year.

*An updated list will ensure your new members are able to take advantage of discounts and special offers. Members who have not renewed their membership will not be extended the discount; however will continue to receive our catalogue. **Also if we do not get the updated listing within 60 days after this letter is sent then your members will be removed from the discount program. The club list must contain the member's name, address, telephone number, and email address if applicable.** Please remind your members that club member names are not sold. Members can also order online. They just need to call 800-228-0000 and set up a user name and password with one of our customer service representatives or create one themselves online. Please let members know that they will need to login before ordering in order for the discount to work. If Not then they will not get the discount. We also have a Club Listing on our website. If you would like for your Club to be listed please let me know and there will be a link added to go to your site from ours.*

This program is a great way to help woodworkers across the country save money on products that are already being purchased and also to help promote our great sanding products to your club members. Listed below are some examples of what we have to offer your woodworking members:

- *10% discount on all non-powered merchandise in our catalogues*
- ***Discounts do not apply to items already discounted in catalog***
 - *regular mailings of our most up-to-date catalogs*
 - *monthly newsletter via email*
- *donations for raffles (twice a year) You have to request them.*
- *expert advice on sanding and woodworking applications*

[\[Return to Top of Page\]](#)

[\[Home\]](#)[\[Chapter Information\]](#)[\[Meeting Information\]](#)[\[History\]](#)[\[Calendar\]](#)[\[Newsletter\]](#)[\[Gallery\]](#)[\[Woodturning Links\]](#)
[\[Other Links\]](#)[\[Tips and notes\]](#)