

WOODWORKERS NEWS



Northeastern
Woodworkers
Association

April 2017, Vol. 26, Number 4

April Meeting

Fundamentals of Bowl Turning – Rick Angus

Thursday, April 13, 2017 7:00 PM

Shaker Heritage Society Meetinghouse

Albany-Shaker Road, Albany, NY

By Dave Mobley

Back in his high school days, Rick Angus was highly interested in using the lathe, but the school's only shop teacher didn't know good turning technique. He had the students use a drawknife to rough out a cylinder to mount on the lathe, and then use the turning tools as scrapers to make crude shapes from the wood. While he did complete a few projects in that shop class, Rick suspected there was a better way. Years later, through books and videos, Rick learned proper woodturning technique. Soon afterward, he joined NWA, where he found a support team for his woodturning journey.

In his demonstration, Rick will take us on a short tour of safe and efficient turning techniques and styles as applied to bowl turning. He'll focus on the fundamental bevel-supported cut using a deep gouge and use of a razor-edged scraper (essentially a thick card/cabinet scraper on a long handle). He'll explore techniques for mounting stock on the lathe and briefly discuss design. Rick will demonstrate the steps of bowl turning – cutting the outside, remounting and cutting the inside and lastly the foot.

A long-time member of NWA, Rick now resides in Connecticut. Rick has shared his joy of woodturning and his understanding of efficient tool handling as a frequent demonstrator at Totally Turning. His work is mostly cross-grain open bowl form produced from half log segments. He chooses grain patterns for symmetry—or not! Recent work incorporating lids to these vessels has allowed the expression of a much taller hollow form. Smooth graceful shapes with sharp detail are his hallmark.

Rick welcomes your questions at the appropriate times during his demonstration – it will help all of us learn.

The purpose of Woodworkers Showcase is to educate the general public to the wonders of woodworking in all of its many forms.

Your woodworking projects make this possible.

NWA is the only show of its kind in the USA. We are also the biggest woodworking show in the USA.

What the heck! We are the BEST woodworking show in the USA!

Now that I have bragged about you all, let's get our entry forms filled out, our projects ready to go, and let's have a great time in our 26th show.

**CLICK HERE
to get the
ENTRY FORM**

**Print the ENTRY FORM,
Fill it out and send it in to
the address on the form**

**Be a part of the
BEST WOODWORKING SHOW
IN THE USA**

Thanks, Ken

NWA General Meeting, March 9, 2017

By Susan McDermott

The NWA membership met at Shaker Heritage Society Meeting House to hear announcements and Pete Howe's presentation on 15 ideas for jigs and fixtures

Announcements:

1. Showcase - critical need for volunteers to fill 60+ slots. E mail Ken Evans or Maria Wilkins at nwavolunteer@gmail.com or phone (518)384-0403. **See list on page 6.**
2. The Gallery or "Exhibit Hall" has 15 items submitted by NWA members. Charlie Goddard pleas for more submissions. Contact him at cgodd@aol.com.
3. Dick Flanders asks members take Showcase yard signs and flyers to display March 20 to April 3. The Half Moon Diner will have Showcase placemats.
4. Reminder of the 2 x 4 Challenge.
5. Membership: Pete Lofromento reminds all of us to pay up if it's due. His e mail notice to you allows payment by credit card or check.
6. Frank Palmari spoke to the membership and praised Dick Flanders and Logan Simms for their six week co-taught course Woodworking 101. Twelve of us benefitted greatly from these highly skilled, knowledgeable, and inspiring teachers.
7. Irv Stephens has replaced Wayne Distin at the raffle table. He calls himself "raffle man in training". Thanks Irv for stepping up to the plate!
8. There is a need for the annual banquet organizer and a librarian. Please let Wally, Dick, Wayne, Ken, Pete, or Charlie know if you can take on these duties.
9. Bart Chabl't was hospitalized and is now home recuperating. He'd be pleased to receive cards and messages from those who know him. His e mail is chezchab@gmail.com and his address is Apt. 501, 451 Ruby Chase Drive, Glenville, NY 12302

Member exhibit at the meeting are two boxes from Charlie Goddard's class and tractor toy with alphabet trailer made by Warren Stoker.



Irv Stephens "Raffle man in training"



Stoker two boxes



Stoker toy tractor

Bright Ideas - Jigs and Fixtures

By *Pete Howe*

Seven NWA members each built three (3) jigs and/or fixtures and presented them at the March 9th meeting. A sign-up sheet accompanied each item. Interested members added their email addresses to the sign-up sheets to receive detailed sketches on building the items. There were about 20 ideas that could save woodworkers time and money and provide a safer way to go. Pete did a great job of coordinating the presenters for an inspiring and instructive evening. The photographs of jigs and their creators are published here. The editor apologizes in advance if she has not given proper credit to the rightful builder of a jig! Please send corrections of any mislabels or neglected jigs to be published in the next newsletter.



Members' display of jigs

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Polishing block - Dave Parkis



Dovetail alignment - Dave Parkis



90 degree shooting board - Dave Parkis

WOODWORKERS NEWS

is published by the Northeastern Woodworkers Association for its members. The Association's aim is to provide a common meeting ground for lovers of woodworking who want to know more about wood and the techniques for forming it. The newsletter is published monthly. The newsletter is available online at www.woodworker.org



Your next issue of **Woodworkers News**

will be published in early May

Copy deadline: April 15

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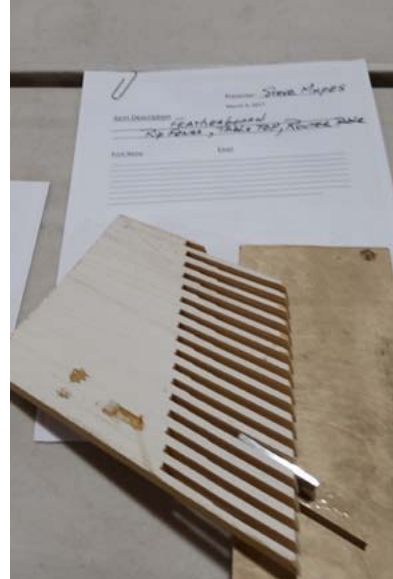
**NORTHEASTERN
WOODWORKERS ASSOCIATION**

P.O. BOX 246

Rexford, New York 12148



Drill press vertical - Steve Mapes



Featherboarding - Steve Mapes



Super saw guide - Steve Mapes



Handsander mount - Jason Cotes



Plexiglass router mount - Jason Cotes



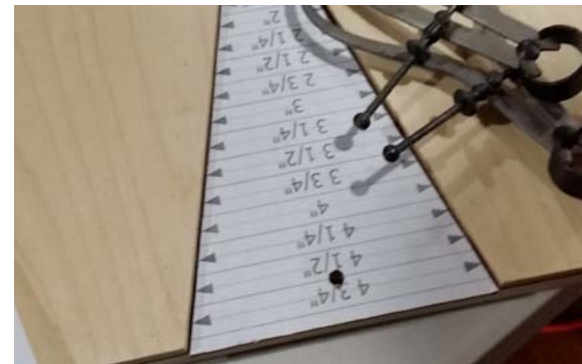
Tenon cutting sled - Jason Cotes



Rolling center finder - Tom Moran



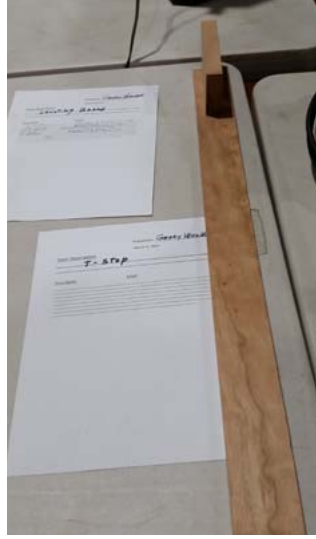
Bench hook - Tom Moran



Scale for turners' calipers - Tom Moran



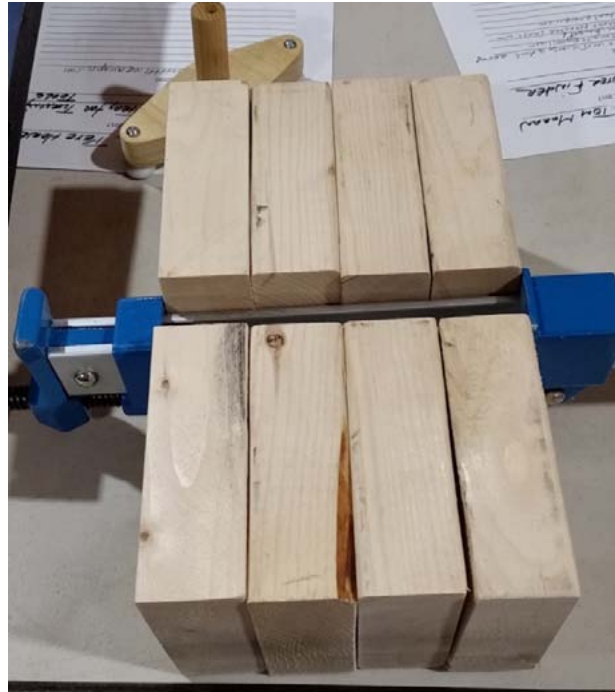
*Small shooting board
Gerry Verner*



*T stop for planing
Gerry Verner*



Clamp cauls - Pete Howes



Four clamp aids - Pete Howes



Turning tool tray - Pete Howes



Golden ratio - Carl Stoners



Saw stop - Carl Stoners

SHOWCASE Volunteers still needed for the following:

Door Hosts - Vendor Area: 2 openings for Sunday, April 2nd, 2:30 PM to 5:00 PM

Door Host - Hotel: 2 openings for Sunday, April 2nd, 1 Noon to 2:30 PM and 1 for 2:30-5:00 PM

Door Monitor - Feature Exhibit Fiber Arts: 1 opening for Sunday, April 2nd, 2:30 PM to 5:00 PM

Floor Monitor - Exhibit Hall:

Saturday, April 1st,

1 opening for 2:30 PM to 5:00 PM

Sunday, April 2nd,

2 openings for 9:45 AM to 11:00 AM

2 openings for 12:00 to 2:30 PM and

2 openings for 2:30 PM to 5:00 PM

Raffle Tickets - Saturday, April 1st,

1 opening for 12:00 Noon to 2:30 PM

2 openings for 2:30 PM to 5:00 PM

Sunday, April 2nd,

2 openings for 12:00 Noon to 2:30 PM

Ticket Sales: Saturday, April 1st,

1 booth opening for 3:00 PM to 4:30 PM

Sunday, April 2nd,

2 openings Hotel Table:

1 for 9:00 AM to 11:00 AM and

1 for 11:00 AM to 1:00 PM

1 booth opening for 1:00 PM to 3:00 PM and

1 booth opening for 3:00 PM to 4:30 PM

Lecture Videographers (free training)

Saturday, April 1st,

1 opening for 2:00 PM to 3:15 PM

Sunday, April 2nd,

1 opening for 12:00 Noon to 1:15 PM and

2 openings for 3:30 PM to 5:00 PM

Loading Dock Ramp Assistant - 1 opening for

Friday, March 31st, 5:00 PM to 7:00 PM and

1 opening for Sunday, April 3rd,

for 5:00 PM to 7:00 PM

NWA Store - Sunday April 2nd,

from 12:00 Noon to 2:30PM

Maria and Kenneth Witkins,

Volunteer Coordinators

Message from the NWA President

By Wally Carpenter

As I've shared my thoughts on several topics within NWA, this topic is core to our existence as woodworkers. In today's world we have an almost infinite access to learning woodworking. This is done through social media, Internet of things, YouTube, and other individualized tools at our disposal. I am amazed by the sheer quantity of materials available to each of us.

In each case, there is someone or a group of people who have taken the time to hone their skills enough to be able to teach others. It's wonderful that there are so many people willing to openly share this invaluable information and in most cases for free.

Even with the abundance of sources available to us, it usually always comes back to a one-to-one visit with someone you know to share what you think you've learned and find out what you've missed. In our case, it means connecting with a member who has this skill and then confirming your skill and being retaught if needed.

The learning process over thousands of years has best been done by having a teacher standing over you as you practice that skill and providing the small yet significant tweaks to your learning which result in your mastery of that skill.

It then becomes the students' responsibility after learning this skill to share their knowledge with others. This ensures the skill is not lost through time. Yes, we now have video media which will last "forever", and the knowledge can be transferred from generation to generation. Yet, media misses that vitally important element of the teacher watching and providing the ever important feedback.

In short, I believe we all take on a responsibility to share what we learn in woodworking. There is a fear by some in saying, "Once we learn, we teach." We don't all need to become formal instructors or teachers to share what we've learned. We can share our knowledge during normal SIG meetings while seeing someone trying to perform a task we have already learned or by sharing with another student while taking a class. If we simply offer to watch and share what we know with an individual, we are ensuring that the skill continues.

Woodworking is an honored craft which will only survive by the sharing of that knowledge by each one of us. Let's each do our part in our own way.

Wood of the Month

Eastern Red Cedar (*Juniperus virginiana*)

reprint by Ron DeWitt c. May 1997

Eastern Red Cedar (*Juniperus virginiana*)
Cupressaceae (*Cyprus*) Family.

It's a bit confusing to call the Eastern Red Cedar a cedar. A true cedar it is not! It's a juniper. But that's just one of the confusing things about Red Cedar.

The junipers are the most common tree genus in the world. They range into Alaska, Iceland, and Greenland, farther north than any other group. The southern limit of their range extends into Cuba and Guatemala. There are about 13 species growing in North America, 50 in the world.

The Eastern Red Cedar, also called Pencil Cedar, Red Cedar, Red Juniper, or Virginia Juniper is widespread in eastern U.S. from Maine to Florida, North Dakota to Texas.

Red Cedar grows in two quite different forms or shapes. Most common in our area is the tall, slender spire or cone-shape with branches rising at a sharp angle, hugging the trunk to make a tight mass. This shape is seen along country roads and in old graveyards where it may be thought to point to heaven.

The second form is common from Maryland, south and west. Rather than spire-like, it has a broad cone-shape with widely spreading branches. Unfortunately, for those who try to identify trees by shape, both forms as well as intermediate shapes may exist in the same area.

Eastern Red Cedar enjoys poor soil conditions, dreary, rocky hilltops, and those limestone ridges which support little else. It also favors the rocky seacoast with its salty air.

Old growth trees grew in vast stands and lived for 300 years, reaching 120 feet with five foot diameter trunks. Few of these remain, all in Tennessee. As with so many of our native trees, much of the value of Red Cedar as lumber has been lost to clear cutting of old stands. Today, Red Cedar is big at 50 feet with four foot trunks. They grow in small groups and as solitary trees in open pastures or abandoned farm land.

The bark of Red Cedar is very thin, $\frac{1}{8}$ inch to $\frac{1}{4}$ inch and peels in long, tough brown strips from deeply fluted trunks. The bark had an early value as cordage and was popular as fire starter tinder. Leaves are also in two forms. One is a $\frac{1}{16}$ inch long scale-like leaf growing in opposite pairs, in four rows, forming a sheath around the branchlet. The second form is a sharp three-sided needle. The leaves are dark blue-green in summer, fading to yellow-brown in winter. They remain alive for about three years before hardening, then hang on for another two or three years as a protective shield before falling.

Male and female flowers are on separate trees-the female tree is more blue-white in color (further adding to the confusion). The plentiful small fruit (berries) turn from blue to purple as they ripen, feeding more than 50 bird species. Juniper berries are an ingredient in gin, too, but I've not yet found the secret.

The heartwood of Red Cedar is an even reddish-brown or salmon color (purplish if fresh cut); sapwood is a light cream providing a beautiful contrast. The wood is soft with fine grain and even texture. It is strongly aromatic.

That "cedar" fragrance and heartwood color are usually enough for positive a positive wood identification. Of further significance under the hand lens is the lack of resin canals and



Juniperus virginiana



Old field characteristics



Leaves of Red Cedar



Leaf variety



The bark of Red Cedar

the extensive longitudinal parenchyma (*the cellular tissue, typically soft and succulent, found chiefly in the softer parts of leaves, pulp of fruits, bark and pith of stems-* Merriam Webster), with dark contents, in a tangential arrangement, giving the impression of false growth rings. The dark contents of the ray cells also provide a noticeable dark, thin ray fleck.

The wood is light with a specific gravity of .47 (33 pounds per cubic foot), heavier than basswood but lighter than White Pine. It's a brittle wood, quite strong, poor in bending but easy to work with knife, hand or power tools. It is very durable when exposed to weather or ground. Grain around knots tends to tear out when moulding or planing, and cutting edges must be kept sharp to achieve a good finish.

Red Cedar air dries easily with little check or warp and very little shrink. It is stable in service. Boards are likely to split when using large fasteners-predrilling is recommended. The wood glues and stains well and is easily worked to a fine finish.

Sawdust, shavings, and splinters should be considered toxic (poisonous), and the dust is known to cause nasal irritation and allergies, so

skin cover and dust protection should be used when working with Red Cedar.

Early Americans quickly recognized the value of Eastern Red Cedar for fencing, shingles, fine furniture, and pencils. The supply of this light weight, straight, even grained, easily pointed wood led the way for the U.S. to furnish the world's pencils for a hundred years. Unfortunately, the pencil industry used only ten percent of the log; the rest was wasted. Supplies dwindled and manufacturers resorted to stumps, fence rails, and barn timbers before moving the industry westward into the Incense Cedars in the early 1900's.

Today Eastern Red Cedar is used for pails, wooden ware, building sills, cigar boxes, coffins, veneers, paneling, and trim. Its insect repelling properties, although much disputed, make it popular as a lining for closets and blanket chests. An extract of the fruit and leave is used in medicine and for flavoring. The oil is distilled from the wood and is used in perfume.

Eastern Red Cedar is generally available in lumber businesses. Expect knots and sapwood in all of it. Supplies are improving although boards wider than six inches cost more and may be scarce. Expect to pay 4/4(1" - 1 1/16") x wide \$1.40/board foot - add .10 for specified width (source: Eastern Red Cedar <http://www.cedarusa.com/products.htm>)

SHOWCASE SIGNS 2017 ANNOUNCEMENT

Showcase yard signs will be available for pickup at the NWA shop in Clifton Park.

Both yard signs and magnetic signs for your vehicle are available. Please place the signs out along the roads by Monday March 20 and recover them by Tuesday April 4.

After Showcase, signs can be returned at the April NWA meeting or returned to the NWA shop in Clifton Park.

Thank you all. See you at Showcase 2017.

Chapter News

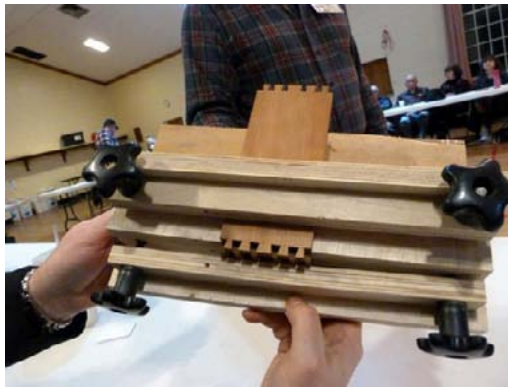
Mid Hudson Chapter News

by Wally Cook

The February meeting highlighted the topic of dovetail joints, both hand cut and machine cut. Joe Kennedy and John Grossbohlín led a roundtable discussion of preparing the wood and laying out cuts for dovetail joints.

John described the typical process for making a drawer with dovetail joints. The first order of business is to examine the grain to minimize the possibility of the drawer sides bowing to the outside. Boards should be oriented to direct any cupping to the inside of the drawer to prevent binding. His acronym: IDIOT is a reminder that the Inside of Drawer Is Outside of the Tree. Cupping can be avoided by using quarter sawn boards.

Next, the boards must be squared – particularly on opposing sides. Joe suggested that all the pieces are marked on their edges to show inside and outside orientation. Pete Chast brought in a homemade jig that helps to mark both pins and tails on both sides of each board to be joined.



Pete Chast brought his jig for laying out dovetails

There are a number of tools which can help with layout of pins and tails. Generally, a sliding square and marking gauge are used for this purpose. Lee Valley makes templates for marking a consistent angle. Consensus was that the angle for dovetails should be within the 7½ to 10 degree range for hardwoods – and perhaps 14 degrees for pine (to compensate for its deficit in strength and compressibility).

We examined several makes of dovetail saws. Such saws are distinguished by the

number (15-20 teeth per inch) and fine set of the teeth. In order to improve accuracy, the saw blade has a spine or stiffener on the top edge of the blade – leading to the general name for such tools as ‘back saws’.



Various saws used for cutting dovetail joints

Japanese pull saws are also used for cutting dovetails because they leave a finer kerf. Maintaining the sharpness of this tool is more difficult than with a traditional dovetail saw, leading some in the discussion to



An example of John Grossbohlín's "hounds tooth" dovetails

recommend replacing the blades rather than trying to sharpen them. A good video detailing the sharpening technique for a dovetail saw by Chris Gochnour can be found at <http://www.finewoodworking.com/2006/02/08/sharpening-a-dovetail-saw>

We avoided the perennial debate over which elements to cut first: pins or tails. However, John pointed out that there are some dovetail joints which demand that the pins are first cut (e.g., hidden dovetails). The actual cutting is fast – the removal of waste is the time consuming process. Again, consensus was to use a chisel for waste removal.

Bob Boisvert commented on the Lee Valley Dovetail jig and found it worthwhile in a



production setting. The template can be flipped to do either pins or tails. A practice cut is needed to verify the setting, but thereafter it works very well.

MOTY: The chapter member of the year is expert scrollsawyer Bob Boisvert. Bob will be honored at the chapter dinner on Saturday, May 6. The dinner will be again held at Roudigan's near the Thruway traffic circle on Rt. 28. Cost is \$30/plate with choice of garlic steak, fillet of sole, and chicken fraicais. Reservations may be made by contacting Vince Guido at 845-331-6302.

Bob Boisvert will be honored as Chapter Member of the Year

Historic Building Skills and Trades Trainings

By Susan McDermott

The Hudson Valley Community College's Workforce Development Institute, NYS Office of Parks, Recreation and Historic Preservation and Historic Albany Foundation (HAF) will join forces to offer a series of hands-on courses aimed at increasing the number of tradespeople skilled in the historic building trades. Like Saratoga Springs, many communities are experiencing an influx of renovation, revitalization and adaptive re-use, and there is real need for skilled tradespeople who are professionally trained in these traditional trades.

This collaboration is providing an exciting opportunity for those who want to learn more about the traditional trades with courses with hands-on experience. The courses are aimed at those interested in or already working in the building trades. There is an extremely high demand for those trained in preservation trades, and often people can earn far more than the average contractor. Those who successfully complete the program will earn a certificate and with the assistance of the New York State Office of Parks, Recreation and Historic Preservation and preservation colleagues across the state, will assist with distributing a list of list of all names of students/contractors who earn a certificate with the public.

The first in the series of courses is Historic Wood Window Rehabilitation followed by courses for Historic Masonry Repair, Preservation Carpentry and Woodworking, Historic Plaster and Stucco, and Weatherization of Historic Properties. The Historic Wood Window Rehabilitation Course will take place from 6:00 to 8:00PM on Tuesdays and Thursdays, from March 7th through May 16th. The class is available through the Hudson Valley's Workforce Development Institute www.hvcc.edu/wdi or call (518) 629-4111 or email workforce@hvcc.edu

The class will take place at Historic Albany Foundation's Part Warehouse at 89 Lexington Avenue, Albany. Chris Templin of Rosch Brothers Construction is the instructor and Lisa Crompton, HAF Technical Services Coordinator, will assist. Students who are interested in taking the Historic Wood Window Rehabilitation course must complete an 8-hour EPA Lea Safe Class before attending the course, which will be offered for free to those who are enrolled in the course.

Kaatskill Wood Turners - What's the Chatter?

By Wally Cook

Bob Lawless demonstrated chatterwork at the March meeting. Chatter is the texture imparted to spinning wood when a flexible cutting tool is applied. The tool alternately digs in and skips away from the wood, creating unique spiral patterns.

We looked at chatter and texture tools that use the centrifugal force of spinning wood. The traditional chatter tool employs interchangeable spring steel blades held in a short handle. Bob showed how this tool can leave chatter marks in a blank being turned with the end grain exposed. While it is possible to texture side grain, chatterwork is enhanced when applied to hardwood end grain. Bob explained that several variables will change the effectiveness of chatter: type of wood, run speed, and attitude or presentation angle of the tool.

Dry hard wood with tight end grain tends to show chatter to best advantage; soft grain areas tend to display tear-out of the wood fibers. Bob also recommended applying the chatter tool at higher speed – he was running at 2000 rpm for the demo.

The presentation of the chatter tool which has a spring steel blade should be from the center of the spinning blank to approximately 7:30 o'clock at the bottom of the blank. Pressure on the tool increases as diameter and speed increase. You will know your chatter is successful when the sound of the tool on wood approximates the “nails on chalkboard” screech. A good treatise on approach can be found in Bonnie Klein's book [Small Woodturning Projects](#).

Other texturing tools have proliferated in recent years, and Bob demonstrated two: the Wagner texture tool and the Sorby spiraling tool. These tools come in different sizes and have various cutting rollers. These tools can be used on side grain. With some patience, the Sorby can cut deeper spiral patterns in side grain using repeated passes. The Wagner tool cuts a consistent spiral pattern in end grain and seems easy to use.

The last tool demonstrated was a homemade decorating elf made from specifications provided by Matt Clarke. The elf-type texture tool uses a router head which spins within two ball bearing

races and is held in the handle by a rare earth magnet. When used on a green wood bowl, the result mimicked a hammered texture both inside and out.

Upcoming:

The April meeting will feature Carl Ford showing Power Carving Textures on Woodturnings. This meeting will start at 9AM on Saturday, April 8.

AAW New Member Offer:

We discussed the campaign initiated by the American Association of Woodturners to attract new members through AAW chapters. The AAW will accept first time members at a 50% reduction in dues if sign-ups occur between April 1 and June 30. The offer coincides with the launch of some expanded woodturning resources sponsored by the AAW:

- Expanded **Woodturning FUNDamentals**: bimonthly tips and techniques
- **Discover Woodturning**: new online resource for prospective woodturners
- **Explore!:** archive of 30 years of woodturning articles
- **VideoSource**: searchable source for vetted woodturning YouTube videos
- **American Woodturner**: bimonthly publication

Those interested can investigate at a special web portal after April 1: <http://tiny.cc/AAWNewGen>



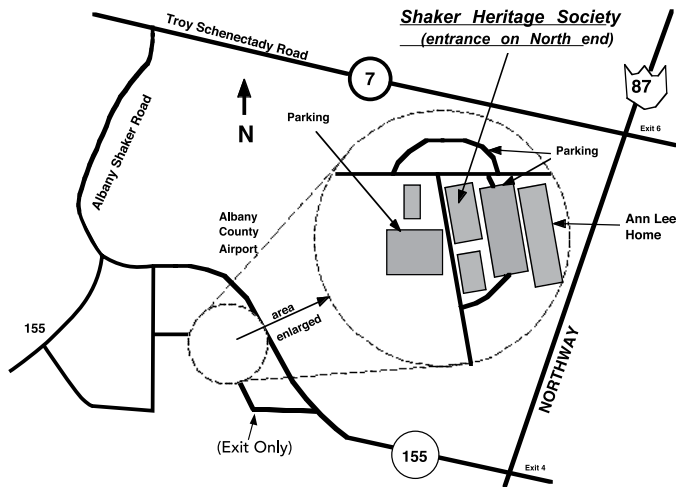
Bob Lawless demonstrates chatterwork using one of a variety of tools



Examples of chatter patterns on end grain, colored with a sharpie

April Meeting

Thursday, April 13, 2017 7:00 PM
Shaker Heritage Society Meetinghouse
Albany-Shaker Road, Albany, NY



2017 MONTHLY MEETINGS

Unless noted otherwise, held at the Shaker Meetinghouse on the Second Thursdays 7:00 PM)

April 13

Fundamentals of Bowl Turning
Rick Angus (Dave Mobley)

May 11

World Famous Tool Chest
Mike Mascelli (Wally Carpenter)

For meeting cancellation information,
call Ken Evans 753-7759 or Charlie Goddard 370-0388

SPECIAL INTEREST GROUPS (SIGs)

Adirondack Woodturners Association (AWA) - The AWA is active throughout the year. Meetings are held the first Wednesday of the month (except in January and July when it is the second Wednesday), and are held at the NWA Learning Center located at 15 Solar Drive, Clifton Park, NY from 6:30 PM to 9:00 PM.

Wednesday "Learn and Turn" sessions occur on all other Wednesdays at the NWA Learning Center. These sessions run 6:00 PM to 9:00 PM. www.adirondackwoodturners.com **Contact:** Ken Evans, 518-753-7759 or kevans1@nycap.rr.com

Scroller's Guild - Meets on the fourth Wednesday of the month at the NWA Learning Center located at 15 Solar Drive, Clifton Park, NY. A beginner's session starts at 6:30 PM (TBA), followed by a general meeting at 7:00 PM. **Contact:** Jeanne Aldous at AMJAMtat2@aol.com or Barbara Nottke at scroller87@aol.com or 869-6268.

Kaatskill Woodturners - (will now shift to) Saturday mornings at 9:00 AM -- the second Saturday of each month at the Opdahl property in Hurley, NY. **Contact:** Wally Cook at wally.cook@gmail.com.

NWA Crafters - Meets every Saturday and Tuesday, from 9:00 AM until noon at the NWA Learning Center located at 15 Solar Drive, Clifton Park, NY. The Crafters provide public service woodworking for various charitable organizations, including the Double H Hole in the Woods camp for children and the GE Toy Modifications Group, and the Make A Wish Foundation. Sharing information, fellowship, and relating experiences are a major part of these sessions. **Contact:** Dave Axton (518) 237- 6942, daxton@nycap.rr.com, Wayne Distin (518) 674-4171, wdistin@nycap.rr.com for more information.

NWA Musical Instrument SIG - Meets every first Tuesday of the month at 7:00 PM to 9:00 PM at the Learning Center. The purpose of the group is to discuss all aspects of all musical instruments, playing, building, repairing, and history. Meetings involve a show and tell table, a program on an appropriate topic, and lots of member interaction. If you want to be on the email list for notifications, **contact** Ken Evans at kevans1@nycap.rr.com or 518-753-7759 or 518-281-0779.

The NWA Wood Carvers SIG - The NWA Wood Carvers SIG - Meet each Thursday at 5:00 PM until 8:30 PM all year at the NWA Learning Center located at 15 Solar Drive, Clifton Park, NY. The goal is to promote the art of Wood Carving and to have a good time doing it. The only prerequisite is a desire to carve while making new friends. Wood, tools, and patterns are available. **Contact:** Diane Balch (518) 338-5637, signs@balchsigns.com

Hand Tool SIG - Meets on the 2nd and 4th Wednesday of each month at 7:00 PM in the Herm Finkbeiner Education Center at 15 Solar Dr, Clifton Park, NY. **Contact:** Dave Parkis for further details: dparkis@nycap.rr.com

Segmented Turning - Meets the first, third, and fourth Thursday of each month at 6:30 PM to 9:00 PM at 15 Solar Drive, Clifton Park, NY. **Contact** Toby Pauly phone 788-7253, e-mail tobypauly@yahoo.com

CHAPTERS

NWA Mid-Hudson - The chapter meets at 7:30 PM on the third Thursday, except July and August, at the Hurley Reformed Church. The Church is just off the the Hurley exit from Rte. 209. Right at the exit, right at the stop sign and left into the Church parking area. John VanBuren, President (845) 444-8281 **Contact:** info@midhudsonwoodworkers.org

NWA Sacandaga - The chapter meets at 7:00 PM. on the Second Wednesday of each month at 55 Second Avenue, Mayfield, NY. **Contact:** Gary Ratajczak, President - (518) 852-1204