

WOODWORKERS NEWS



Northeastern
Woodworkers
Association

January 2006, Vol. 15, Number 1

January Meeting

Dave Mobley to Present CNC Routing

7:00 p.m. Thursday, January 12, 2006

Shaker Heritage Society Meeting House

Albany-Shaker Road, Albany (near Albany airport)

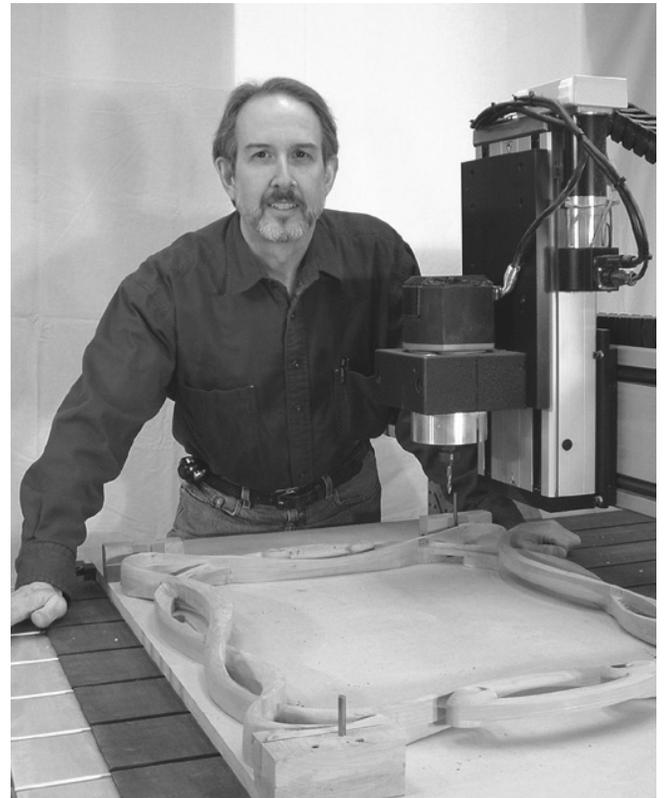
- John Michne

Open any cabinetmaking trade magazine these days, and you'll find at least one article about CNC routing. So what's CNC routing, and what's all the fuss about? CNC (computer numeric controlled) routers are like robots that automatically perform precision cutting and shaping operations. They're used in a variety of applications, ranging from high-throughput cutting of cabinet parts to wooden sign engraving.

In this talk, Dave will explain the basics of how CNC routers work and show several examples of what CNC routers are used for. Then he'll present some representative projects that he's worked on with his CNC router over the past year.

Many NWA members will recognize Dave from being one of the founding members and a former President of NWA, as well as being Membership Chairman for a number of years.

After more than 25 years of working as a research chemical engineer and research manager for GE, Dave decided to start his own business. His venture, *Windhover Studios*, specializes in executing custom designs in wood and related media and creating sculp-



tural pieces. Dave especially enjoys the design phase of woodworking. He likes to incorporate motifs from different cultures and time periods in his pieces. He's developing methods to use CNC routing to help execute his designs. 🐿

Garrett Hack to Teach Class at Shelburne

-Pat McCord

Garrett Hack, who gave the Fiske Fund Lecture and conducted a weekend workshop in November, will be teaching a course entitled "Precision with Hand Tools" at the Shelburne Art Center in Shelburne, Vermont on February 25-27 (Saturday through Monday) and March 4-5 (Saturday and Sunday). It's a week-long course split into two weekends to accommodate those who might not be able to attend a full week at once.

The class will focus on understanding sharpening and tuning hand tools so they work effectively for a variety of common techniques. Garrett, who has authored "The Handplane Book" and "Classic Handtools", describes this class as "the most important class I teach".

Tuition for the class is \$500. For more information contact the Shelburne Art Center at www.shelburnecraftschool.org or (802) 985-3648. 🐿

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UNLESS OTHERWISE NOTED, PHONE
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From the President

- John Michne

The American dream. We have all heard the term, and generally it means a home of your own. Well, why not an NWA home of our own? It costs nothing to dream or to wish. I once worked with a friend who was an avid woodworker, and he would bring tool catalogs to work to read during lunch. He called them his "wish books". I remember him well, and even today, when looking over the steaks in the meat case, I reply as my friend would, "No, thanks, just wishing" when asked by the clerk if he could help me. Everyone wishes or dreams now and then, and my daydream is of an NWA Education Center, complete with meeting facilities, shop space, teaching space, storage.... uh oh, my wife just called me, guess the dream will have to continue another time.

* * *

The NWA boat builders have been hard at it, with the hull rapidly taking shape as seen in the pictures below. As always, my shop is open on Wednesday afternoons to all interested persons for viewing the progress.



Matt Sweet and George Walko lay out the bottom artwork.



Don Dean fits a white cedar strip as George Walko and Matt Sweet look on.

Preparation for Showcase 2006 Well Underway

- Larry Zinn

About 25 dedicated members have been attending monthly meetings and performing many tasks necessary for the successful presentation of Showcase 2006 at the Saratoga Springs City Center on March 25 and 26. Just a few of the tasks have included:

- * Signing up the professional lecturer/demonstrators.
- * Contacting all of the commercial vendors.
- * Preparing the feature exhibit "Log to Table".
- * Planning of the special exhibit on "Fasteners".
- * Gearing up by the Mid Hudson Chapter to run the "Toy Factory".
- * Purchasing raffle prizes.
- * Sending out publicity.
- * Activating and updating the *Showcase* website (www.nwawoodworkingshow.org).
- * Preparing for their part of the show by the carvers, turners and scrollers.
- * Planning the layout and lighting for the site.
- * Getting people and equipment lined up to run video so we can see the demonstrations more clearly.
- * Preparing a special leaflet to inform the attendees about our club and its mission.
- * Contacting professionals to provide us with an opportunity to see their special workmanship in the "Gallery".
- * Buying aprons, checking out computers and generally preparing to do their stellar job by the office volunteers.
- * Sweating by the chairman.

Be sure you volunteer to do your part. 🐾

Roy Underhill of Public Television Fame to be Featured at the March NWA Meeting.

Roy Underhill, star of the PBS television program "The Woodwright Shop" will be the speaker at the March 9, 2006 NWA meeting. He will also present a two-day program the following Friday and Saturday, March 10 and 11. The regular March meeting will be held at the Shaker facility as usual and the Friday and Saturday program will be held at the Stillwater Community Center Auditorium in Stillwater, NY.

The Friday program will include the 'Use of Hand Planes to do Window and Door Sash Work' and the 'Hewing of Logs with a Broad Axe'(Roy will work on a 12 inch diameter log of about 8 foot in length with a broad axe).

The Saturday program will include Puzzling Dovetails and Pole Lathe work (turners take special note here).

If you would like to register for the Friday/Saturday program, please call Ken Evans at (518) 753-7759 and send a check in the amount of \$35 made out to NWA.

This is likely to be an exceptionally popular program and it WILL be open to the general public with much publicity generated by NWA. If you are interested in attending these events, send your check ASAP to reserve a spot. 🐾

Mid-Hudson Chapter has New Website

- Chuck Walker

Take a look at the new Mid-Hudson website at <http://www.midhudsonwoodworkers.org/>.

It is just off the ground within the past several months but has a lot of neat stuff. On the home page you will find links to recent additions.

Feel free to prowl around wherever you want. We are still filling out some of the needed text but it is up and running thanks to John MacDougall. Comments are welcome. 🐾

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. It is assembled in QuarkXPress 5.0 on an iMac G5, duplicated by Shipmates, and mailed to more than 850 addresses.



Your next issue of **Woodworkers News** will be published in early February.

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NWA maintains two websites, the first noted here operates continuously. We also offer selected links to other sites of interest to our membership.
Webmaster - Justin Rohrer
rohrej@woodworker.org

The second site operates from January 1 to May 30 and carries specific information about SHOWCASE.



**NORTHEASTERN
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Wood of the Month^{©2005}

- Ron DeWitt

Royal Paulownia (*Paulownia tomentosa*) (Thunb.) Sieb & Zucc.

A Hardwood Scrophulariaceae - Figwort or Snapdragon Family

Some references list as many as 15 species of paulownia although only six are generally recognized, all from China. Royal paulownia (*Paulownia tomentosa*) is probably best known because of the broad distribution over its native range and an extensive naturalized range. The native habitat of royal paulownia also coincides with that of the ginkgo and dawn redwood.

Royal paulownia was first recognized and documented in China 2600 years ago for its medicinal, ornamental and timber value. It has been cultivated in Japan for many centuries where it is important in numerous ceremonial traditions. The Dutch East India Company introduced the tree into Europe in the 1830's, and from there it immigrated to the U.S. as an exotic ornamental in 1844. In spite of the long history of this tree in Asia it is interesting that the genus name honors 19th Century princess Ann Pavlovna, daughter of Czar Paul I of Russia.

In North America royal paulownia, also called empress-princess or imperial-tree, blue catalpa, foxglove tree, rattlebox tree, sapphire princess or simply paulownia, grows from Montreal south into Florida and west into Oklahoma, Missouri and Texas. In the U.S. it is described as an aggressive ornamental or in some areas as invasive. It is now well established, having naturalized in 25 states.

Paulownia will germinate and grow rapidly in almost any moist, bare, well-drained soil exposed to lots of sunshine. It is highly adaptable to a wide variety of soil types or forest conditions. It is not shade tolerant and does not usually survive in temperatures below -8° F (-22° C).

In plantation conditions this small to medium size tree grows straight and tall with a single stem, maturing in 20 years at 60'-70' with a 1'-2' diameter. Open-grown trees tend toward lower branching on shorter, clear stems. The tree has a broad, rounded crown of heavy, "clumsy" upswept branches. In most environments growth will be 8'-12' in the first year with saw logs available in 15 years. Mature trees frequently become unsound and don't usually live beyond 70 years. A record tree in Evansville, Indiana, although only 57 feet tall, is just over 7½' d.b.h.

Twigs are stout, brittle, light brown with circular leaf scars and without terminal leaf buds. Bark is gray-brown, thin with shallow fissures and smooth intermediate areas. Leaves are rounded heart shapes, opposite or whorled on

the twigs and large to very large, typically 8"-10" across but may be as large as 36" when produced on leaf sprouts or heavily-pruned stems. Leaves are bright green and hairy on top, pastel green and densely woolly on the undersides. Shoots are very thick and hollow when young.

Trumpet-shaped flowers 1½"-2" long (foxglove-like) are carried in large, showy, vertical clusters appearing before the leaves. First flowers appear in about the sixth year. The delicate scent and especially the violet to blue color of the short-lived flowers are unusual for a tree, making them a distinguishing feature. The flowers are classified as perfect, that is, possessing both male and female components, enabling them to self-pollinate. The flowers produce a 1"-1½" long-oval capsule, sticky green at maturity then drying to brown. Each capsule may contain 2000 light fluffy seeds; a single tree may drop 20 million easily-dispersed seeds in a season. The tree also propagates well from lateral root cuttings.

Wood of royal paulownia is similar to catalpa in general characteristics. Sapwood is narrow and white; heartwood is golden brown to light gray or brown with darker brown or even purple streaks. Wood is soft, very strong for its weight, medium textured, and straight grained with a pleasing figure. It is ring porous with two or three rows of solitary, round, clear pores. Transition from earlywood to latewood is abrupt. Growth rings are well defined by the earlywood pores.

This wood is well behaved in drying, air-drying in as little as 30 days without checking and with almost no tendency to warp. Kiln drying averages 36-60 hours but in a "hot run" can be accomplished in 24. Royal paulownia is very stable in service.

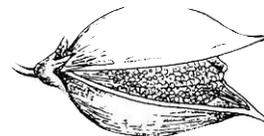
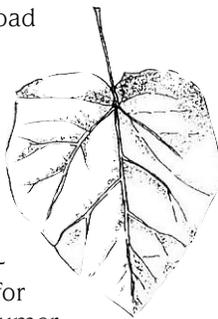
Density of the wood is quite site specific. Average specific gravity is about 0.34 at 12% M.C. Weight is approximately 24 lbs./cu. ft., a little less than aspen or American basswood. Shrink from green to oven dry is very low at 2.2% radially or 4.0% tangentially, accounting in part for its stability.

The wood works easily with hand or power tools that must be very sharp to minimize tear out or the tendency to fuzz. Those sharp edges will need an occasional touch-up to rectify the dulling effect of silica deposits in the wood. Sharp edges and fine sanding yield silky-feeling surfaces with a satin luster. This wood has no odor but does have a slightly astringent taste. Fasteners take and hold well without splitting, any adhesive works well and the wood holds paint nicely or stains easily to simulate other woods. In China and Japan the wood is popular for delicate, detailed carvings. This wood also has good sound resonance qualities.

Although quite durable, in frequently wet situations it is quick to decay on contact with soil. It has a natural resistance to insects. Royal paulownia has unusually good heat insulation properties with an R value and ignition temperature about twice the value of the average hardwood.

Specific health risks were not found for royal paulownia but leaves and bark do contain phenolic glucosides.

Continued on Page 6



Volunteers Needed For Showcase 2006

-Larry Zinn, Showcase Chairperson

Thus far 27 members have signed up to volunteer to help make *Showcase 2006* run smoothly. Volunteers are critical to the success of *Showcase*, and now is the time to make your commitment of at least one 2¹/₂ hour shift on March 24(set-up), March 25 and March 26.

Please mark these dates on your calendar and sign up at our January meeting or by phone or e-mail at (518) 583-1227 or lrzn@aol.com. When you phone or e-mail, please leave your phone number and e-mail address. We need 400-500 members to help for one or more shifts.

Assignments include:

- Setup** - Friday, March 24, from noon to 9 pm
- Takedown** - Sunday, March 26, beginning at 5 pm
- Door Hosts** - Ticket taking and handing out programs
- Floor Hosts** - Walking the showroom floor answering questions
- Ticket Sales** - Selling tickets at the show
- Lecturer's Assistants** - Help lecturers set-up/take down, operate lights and equipment
- Sawmill Assistants** - Work short shifts outdoors assisting the operators
- Raffle** - Sell raffle tickets during the show
- Truck Drivers** - Friday and Sunday pickup and delivery of equipment
- Callers** - help to communicate assignments and solicit more volunteers
- Whatever** - If you have no preference (or are willing to be assigned where needed most)

The perks that go along with these jobs include: free admission to *Showcase* (only members who volunteer get in free); a chance to win the special drawing of a nice gift to one or more lucky volunteers; the satisfaction of helping to make a big operation run smoothly; the opportunity to interact with fellow members and attendees; knowing that you helped boost the Fiske Fund so that you and/or other members might be able to go to special woodworking schools some time in the future. 🐾

It's better to keep your mouth shut
and appear stupid than to open it
and remove all doubt.

Mark Twain

THE WOODCARVER

Khing, the master carver, made a bell stand
Of precious wood. When it was finished,
All who saw it were astounded. They said it must be
The work of spirits
The Prince of Lu said to the master carver:
"What is your secret?"

Khing replied: "I am only a workman:
I have no secret. There is only this:
When I began to think about the work you commanded
I guarded my spirit, did not expend it
On trifles, that were not to the point.
I fasted in order to set
My heart to rest.
After three days fasting,
I had forgotten gain and success.
After five days
I had forgotten praise or criticism.
After seven days
I had forgotten my body
With all its limbs.

By this time all thought of your Highness
And of the court had faded away
All that might distract me from the work
Had vanished.
I was collected in the single thought
Of the bell stand.

Then I went to the forest
To see the trees in their own natural state
When the right tree appeared before my eyes,
The bell stand also appeared in it, clearly, beyond doubt.
All I had to do was to put forth my hand
And begin.

If I had not met this particular tree
There would have been
No bell stand at all.

What happened?
My own collected thought
Encountered the hidden potential in the wood;
From this live encounter came the work
Which you ascribe to the spirits."

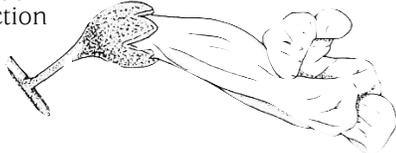
(From *The Way of Chuang Tzu*, ed.
and translated by Thomas Merton)

Wood of the month...

Continued from Page 4

Health/safety precautions for eyes, skin, nose, throat and lungs are advised when working with this wood.

In their native habitat, the paulownias continue to be used in a wide array of medical applications. Bark concoctions treat intestinal parasites and restrict blood flow. Boiled flowers relieve skin ailments. A tincture of inner bark treats fever and delirium. Leaves are poulticed onto bruises, leaf juice is applied to warts, and a decoction of leaves is used to cleanse open ulcers, promote hair growth and prevent graying. Leaves are used for high-quality cattle fodder.



Early 19th century Chinese porcelain producers used paulownia seeds as packing material for their delicate china exports, which resulted in establishing the tree in many of the world's ports.

Royal paulownia lumber is used for boxes, case furniture, drawers, doors, windows and trim. It is also used for clogs, coffins, carvings and stringed musical instruments. Some is used for laminated beams, veneer-surface and core stock, racing boats, Venetian blinds and surfboards. Timber is also used for structural beams, posts and charcoal. In the U.S. royal paulownia is often planted as an ornamental in difficult situations. It is quite successful in mine reclamation projects as a pioneer, preparing the ground for more durable future stock. Tree plantations aimed at lumber and timber for export are being tried in several areas of the southeast. Results have not yet been very encouraging.

Little demand has developed. Supplies don't seem to be readily available and most commercial material is going to Japan. Sources explored in the mid Atlantic states found 4/4 stock, clear in 8' lengths, with 3", 4" and an occasional 6" width at prices in the \$8-\$10 per board foot range. 🐾

Fiske Fund News

- Joe Kennedy

During the fourth quarter the Fiske Fund Committee awarded a grant to Eric Marczak for an advanced course in guitar making held at Woodcraft in Latham. I'm sure we are all eagerly awaiting Eric's report on this class.

There are three applications received during the fourth quarter that are under review now. Chris Knite and Duane Henry will be attending a five day Windsor Chair class with Mike Dunbar in March. Wayne Evancoe will be attending a three day turning session with David Ellsworth.

There are various classes at every skill level out there. If and when you decide to attend one, contact me at jkenn23333@aol.com for an application form. 🐾

Wood Definition

- Ron DeWitt

Oriented strandboard or OSB is an engineered structural panel manufactured from thin wood strands bonded together with waterproof resin under heat and pressure. It is used for roof, floor and wall sheathing. Strands that are 4"-6" long, 1/2" wide and 0.025" thick are sliced from aspen, yellow pine, red maple, white birch, yellow poplar or sweet gum. The strands are oriented parallel to each other in thin layers but perpendicular to strands of adjacent layers. OSB is a strong sheet material produced in many lengths, widths and thicknesses similar to plywood.

Wood Questions

Q. How does the amount of forested land in New York State today compare with forest land when the first settlers arrived?



A. In the early 1700's the area that is now New York State was about 90% forested. By 1880 forested land had diminished to about 25% of the State's area. Today, 62% of the State is forest land.

New NWA Members

- Pam Cook

Welcome to NWA to our newest members. We hope that you enjoy belonging to NWA and participating in the many activities that are available.

Don Zeibig, Gansevoort, NY
Peg Leg Robinson, Pine Plains, NY
Don Beale, Rosendale, NY
Charlie Kested, Johnstown, NY
Martin McNally, Poughkeepsie, NY
Roger Klein, Cottekill, NY
Dick Sargood, Valley Falls, NY
Don Sargood, Hoosick Falls, NY
Nancy Stein, Stone Ridge, NY
Robert Walker, Cherry Plain, NY
Joe Varno, Rensselaer, NY
Pat and Tim Garrahan, Schaghticoke, NY
Neil Roberts, Schuylerville, NY
Ray Havelmann, Catskill, NY
Joe Marcewicz, Herkimer, NY

CHAPTER NEWS

Mid-Hudson Chapter December Meeting

- *Wally Cook*

The featured presenters at the December meeting were the Catskill Mountain Carvers. The group brought in a variety of carved objects...examples of diverse carving style, such as in-the-round caricature work, flat plane tableaus, relief carving, chip carving and whittling.

Sandy Roosa showed a unique Scandinavian craft called a fan bird. The fan bird is constructed from one piece of white cedar. The wood is worked wet and both carved and rived to split the wood and separate the "feathers". A miniature draw knife is used to split across the grain of the cedar and pull apart sections to alternate sides.

Modified flat plane carving is a style using long straight cuts. Ed Roeser brought two dioramas that combined in-the-round carving with flat-plane technique. One piece represented a photograph from Bob Steuding's book on the Ashokan dam, showing Rowl Bell and his wife on their front porch.

Butternut, basswood, and tupelo are favored woods for carving. To achieve a realistic pose, the partially carved object may be cut in sections on a band saw and reattached in order to allow the carver to avoid cutting awkward grain directions. Andy Angstrom used a dozen pieces of wood for each antler in the elk pictured.

As Chuck Garofalo and Ralph Herrmann pointed out, painting skills are critical to the finished carving, often taking as long as the actual carving itself. Acrylics are typically used and applied in layers of light washes – as many as eighteen separate layers.

A full gallery of the carvers work, including Bob Graney's relief carvings, Carl Ford's chip carvings, and Bob O'Brien's whittled chain and captured-ball pieces can be seen at www.midhudsonwoodworkers.org

The Catskill Mountain Carvers meet the second Monday of each month at 7PM. Carving classes are also available. To obtain more information about the group, call Bob Graney at (845) 339-5093. Officers for 2006 are:

President: Bob Graney
Vice President: Ed Roeser
Secretary: Chuck Garafalo
Treasurer: Dick Dillon



Andy's elk



"Them Carvers is pretty good!"



Ed used flat plane carving for the background



Sandy holding cedar Fan Bird

November SIG Meetings

Kaatskill Turners December Meeting

- *Chuck Walker*

The program for December was shared by Bill Reynolds and Jim Zitz who presented and demonstrated how to make pens on the lathe. Bill discussed the tools and



Jim Zitz turns a pen blank.

materials necessary and gave some insight into how to get the wood blocks drilled and squared off.

Inserting and gluing the brass tubing with cyanoacry-

late glue was covered along with a warning to keep your hands out of it or you would likely lose some skin. Sources for supplies were also discussed and catalogs passed around for everyone to review. A number of vendors supply tools, mandrels, wood, and the pen parts themselves. Many are available as kits.

Jim demonstrated the entire process of making a pen from start to finish. He turned the blocks to shape and size emphasizing the need to have no discrepancy where the wood meets the bushings on the turning mandrel. This is

because the bushing diameter matches the pen hardware so when the pen is assembled it will be a finished product ready to sell or use as a gift. Jim used sanding sponges in a prescribed series of grits (do not skip any) to sand the wood before finishing. He likes to use a drop or two of cyanoacrylate glue on a paper towel applied to the spinning blank as a sealer for the wood. Caution is necessary as you can glue the pen blank to the bushings. He polishes with a fine abrasive in a prepared product to enhance gloss and finally uses a French polish of a shellac base to protect the final product. The pen was assembled with a special press and the fittings installed.

Next meeting: January 11 at 7PM at the Opdahl building. Carl Ford will demonstrate vacuum chucks.



Jim Zitz and Bill Reynolds discuss tools and materials for pen turning.

Items to Raffle at Showcase 2006

- *John Coleman*

Each year at Showcase a raffle is conducted for the general public to raise funds for our educational activities. This year we are lucky to have several great items including the canoe being worked on by NWA members, a table constructed by the Special Exhibits Committee and a wood-working tool, which will be a wood lathe or similar item.

In the past NWA members have donated woodworking items such as wagons and wooden boxes. If any member is interested in donating similar items please let me know at (518) 587-9258 or jcoleman@dasny.org.

In addition, if any member is interested in working a two-hour shift as a volunteer at the raffle booth please contact me and I will forward your name to the Chairman of the Volunteers Committee. 🐾

Woodcraft Classes – January, 2006

Jan. 5, 12, 19; Build A Native American Courting Flute with Eric Marczak

Jan. 7; Critter Carving with Carl Borst

Jan. 14 & 15; Laminate and Turn A Rolling pin with John MacDonald

Jan. 21; Advanced Fretwork with Mark Pelkey

Jan. 22; Band Saw Boxes with Eric Marczak

Jan 28 & 29; Build A Hanging Wall Cabinet with Jeff Carrig

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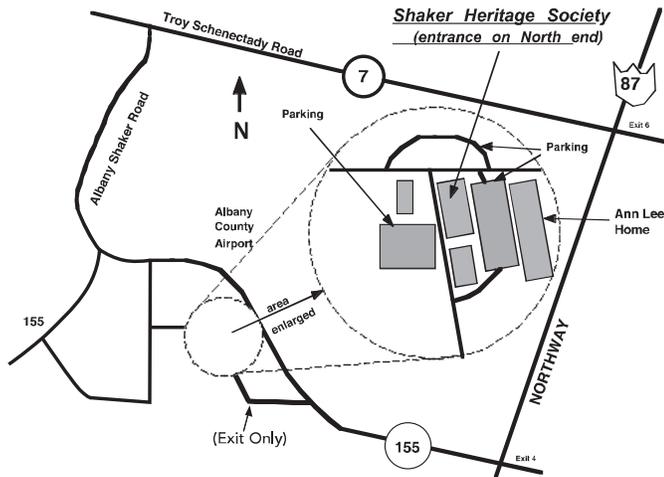
Ph: 802-843-2594

Fax: 802-843-2274

Email: trade@vermontel.net



Northeastern Woodworkers Association
P.O. Box 246
Rexford, New York 12148-0246



NEXT MEETING:

Thursday, January 12th, 7 pm.
Shaker Heritage Society Meeting House
Albany-Shaker Road, Albany
(near Albany airport)

GENERAL MEETINGS AND SPECIAL EVENTS

- January 12, 2006 – General Meeting
Shaker Meeting Hall, 7:00 pm
Dave Mobley on CNC woodwork.
- February 9, 2006 – General Meeting
Shaker Meeting Hall, 7:00 pm
Scroll Sawing by Mid-Hudson and Albany Groups
- March 9-10-11, 2006 – Woodworking Weekend
Thursday evening, Roy Underhill of the PBS Series
"The Woodwright's Shop"
Friday, Saturday – Workshops, Sears Colonie Center
- March 25-26, Showcase 2006 –
Saratoga Springs Civic Center
- April 13, 2006 – General Meeting
Shaker Meeting Hall, 7:00 pm
John Alexander on "Working Green Wood to Furniture"
- May 11, 2006 – General Meeting
Shaker Meeting Hall, 7:00 pm
Woodcarving by Mid-Hudson and Albany Groups
- June, 2006 - NO MEETING
- July 23, 2006 - NWA Picnic
Jonesville Fire Station
- August, 2006 - NO MEETING

For meeting cancellation information,
call Ken Evans 753-7759,
John Michne 371-6690
or Charlie Goddard 370-0388

SPECIAL INTEREST GROUPS

SPECIAL INTEREST GROUPS (SIGs)

Adirondack Woodturners Association - The AWA is active throughout the year. Meetings are every first Wednesday of the month (except in January and July when it is the second Wednesday), and are held at the Curtis Lumber conference room on Route 67, Ballston Spa. Beginners' sessions begin at 6 pm; the main program at 6:30 pm. Saturday "Learn and Turn" sessions are also scheduled. www.adirondackwoodturners.org
Contact Ken Evans, 753-7759 or Kevans1@nycap.rr.com

Carver's Guild - meets 2nd and 4th Tuesday of each month at the Clifton Park Senior Center from 6:30 pm to 9:00 pm. Sessions are intended for every NWA member who is interested in carving, from beginners to those wanting to learn a new technique. No reservations are necessary, just show up! Contact Bill McCormack, 233-7260.

Scroller's Guild - Meets the third Wednesday of each month at Woodcraft, Latham. Beginners' session starts at 5:30 followed by a general meeting at 6:15. Contact Tom O'Donnell (518) 581-1167 or todonne3@nycap.rr.com.

Kaatskill Woodturners - Meets the second Wednesday of each month at 7 p.m. at the Opdahl property in Hurley. Contact George Norton, (845) 331-1705.

CHAPTERS

NWA Mid-Hudson -The chapter meets at 7:30 p.m. on the third Thursday, except July and August, at the Central Hudson Electric Company Community Center, Route 28, Kingston. Contact Joe Mikesch, (845) 687-4285

NWA Sacandaga - The chapter meets at 7 p.m. on the second Wednesday of each month at Mayfield High School in the woodworking shop. Park by the section of the building that protrudes further into the parking lot and enter the nearest of the (5) doors. Contact Gary Spencer, 863-6433.