Corey's Corner

Hello, winter has finally arrived, but spring is just around the corner, and to celebrate Garrett Hack will be here again in March for a special Friday night meeting followed by a Saturday presentation. This event is free for current members.

Friday night’s topic will be WORKING SMART:

Garrett’s talk will look at ways to improve your work habits to do better work, more enjoyably, while making fewer dumb mistakes. Something as simple as using a good marking system avoids errors and saves time. A story stick (doubling as a pattern perhaps) is another useful aid that has many advantages over a ruler for transferring exact dimensions. And naturally hand tools can be highly efficient and accurate at certain tasks such as edge jointing two boards for gluing together. Through some short demos Garrett will illustrate the usefulness of hand tools and how they fit into the balance between working by hand and machine, and more tips for working smart.

Saturday, the topic will be DESIGN:

DESIGN is by far the most challenging part of building furniture as there are few rules and often many unknowns. By looking at images of some beautiful furniture we’ll start to answer questions such as how was it made, what woods were used and why, how did the maker solve some of the basic problems of design and construction, and how are such design elements as proportion or detail used? Garrett will discuss the evolution of a design he is working on for a curved cabinet, and demo some of the details he is considering. Come with your design questions.

Work Safe,

Corey

Motor Types January 2012 Presentation

We were pleased to have Dennis Motl as our presenter at our January meeting. I personally have a hard time comprehending anything that has to do with electric, but Dennis helped a lot. I still may not 'get' all the information, but thanks to Dennis and Jerry Strojny I received a copy of the slides he used for the presentation. I will try to summarize the information.

There are three types of motors that can be used on woodworking power tools. They are the universal, the induction single phase, and the induction 3 phase.

The universal motor is used in hand tools such as; hand drills, routers, etc. They all have brushes. They can be either AC powered, DC powered or battery powered. They can have variable speed, they are usually light weight, somewhat noisy. They are not very efficient, and tend to get hot when used a long time, or when asked to work harder than they were intended to work. Dennis said they have excellent stall torque (which I don’t really understand). In their defense, they are relatively cheap and easy to replace.

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The induction - single phase motor is the one used on most stationary power tools. This motor operates on AC only. It is heavy, quiet, durable. It is single speed, dependent on the line wiring in your home or workshop, (standard house in US is 60 Hz). The motor may be reversible. As you all have experienced, the stationary tools are more expensive. Mostly the motors can be replaced, which is not always cheap or easy to do.

The induction - three phase motor was built for commercial power and use. It also in heavy duty, quiet, durable. It can be made to have adjustable speed by using a VFD or inverter. Many of the huge machines for cutting and turning metal use these type of motor. Usually you need 220 wiring to use the machine. (Not sure about whether it needs 220 wiring or not).

Dennis raised the question of how do you tell what the rating is on a motor. Rating methods for motors are done many ways. By input power, by output power or continuous, by duty cycle, or any combination of all of that. Dennis said that what is more important is the starting torque & maximum rpm. But what really matters is that the power is really limited by how hot motor becomes. If it gets too hot it burns out and you need a different one.

The formula for the power of the motor is:

\[ \text{horse \_power} = \text{volts} \times \text{amps} \times \text{power \_factor} \times \text{efficiency divided by 746.} \]

For example a \(1\_\text{hp} = 120\text{volts} \times 12.4 \text{amps} \times 0.5 \text{efficiency divided by 746.}\)

But in a home with 120 volt wiring, the maximum input power on 20 amp fuse: 2400 watts = 120 volts \(\times\) 20 amps, divided by 746 watts = 1 hp and 3.2 hp max. But the motor has 50\% efficient so you can expect 1.5 hp realistic output continuous with 1.0 hp as a good safe limit. Now if that doesn\'t make your head spin...

Finally Dennis said that motor rating depends on the usage. Hand tools such as a drill or circular saw need high torque when catch. The stationary machines such as the table saw, planer, drill press have constant load but most loads very short duration less 1 minute. He asked how you would rate stall torque, running power, the amount of time running like short time or continuous. The correct way is to measure the torque at running rpm. Dennis is a fan of variable speed motors because you can vary the frequency and voltage of the motor, therefore giving yourself the most power. Dennis, I hope I did justice to your presentation. Thank you.
Machine Workshop

It was a cold January, Saturday morning when 15 Guild members gathered in Bill Godfrey’s shop to about machine set-up and maintenance. The workshop presenter was Dave Eubanks, owner of Independent Machine Service & Repair.

During the first part of the morning Dave covered the basics of woodworking machines, how they work, and how to make them last. He presented a lot of valuable information. When oiling machine parts, use only non-detergent oils. Kroil oil will loosen frozen metal parts. If you use sprays such as WD40 to lubricate parts, you must spray them often because they are not permanent. How to properly align pulleys. Bets should have some deflection, but never more than 1/2”. When cleaning flat surfaces use Scotch-Brite pads with a backer. The difference between manual and magnetic switches and 1 and 3 phase motors was explained.

Dave spent the second part of the workshop on the drill press, bandsaw, tablesaw, jointer and planer. On each machine he demonstrated proper set-up and alignment. He showed us how to install planer and jointer knives, align the fence and blade with miter lot on the tablesaw, and check parts for run-out.

We all enjoyed the workshop and thought it was very informative. If there is enough interest, the Guild will repeat the workshop in 2012.

Ed Cessna

WWG Board Briefs

Attendees: Corey Megal, Jerry Tackes, John Johnson, Leila Crandall-Frink, Ken Ochs, John Parkes

Treasury Balance: $8,392.73

Membership: Collection of dues for 2012 is in progress. Fifty-five members have paid to date.

Publications: Items for publication in the February Ripsaw are due to Leila by January 16th.

Woodworker’s Show: The Guild will again have a booth at the Woodworker’s Show at State Fair Park, February 17-19th.

Toys: A note expressing their thanks was circulated from one of the agencies receiving toys from the Guild in December.

Workshops: The January 14th machine setup workshop is tentatively filled with 12 of 15 members already paid-up. The required minimum number of participants (4) have signed up for the February 19th & 26th "Build a Wooden Box with Bob Dickey” workshop with 2 more openings available. There are openings to schedule meeting topics and workshops mid-year and beyond. This will be discussed at the February board meeting.

Meeting Schedule: The Guild will continue the practice of not holding a meeting in August.

Respectfully Submitted,
Ken Ochs

Wisconsin Woodworkers Guild Members,

I am eager to tell you about a special woodturning event that will interest and benefit you. Rockler has partnered with Robert Sorby Tools of England to present a once in a lifetime turning demonstration featuring internationally known turning demonstrator, Chris Pouncy. Chris will be using the Ultima Hollowing System along with the Sovereign too system. This will be a unique opportunity for you to hear directly from the expert, and is a great event for all skill levels. Rockler is underwriting this event so there will be no charge to attend.

The demonstrations will be on Wednesday 2/15 at 1 PM and 5 PM. As part of the event, we will be offering 20% off all Sorby tools the day of the demonstration. This is a great offer for you to either get started or get that specialty tool for which you have been waiting. Please feel free to stop in the store or give me a call with any questions.

Sincerely,
Tom Petkovsek
Rockler Store Manager
845 N Mayfair Rd
Wauwatosa, WI 53226
(414) 774-1882
Rockler Events in February
2/4/2012, CNC
2/11/2012, Rockler Dovetail
2/12/2012, Soap Dish Turning Class $35.00
2/15/2012, Sorby Turning Demonstration
2/17 - 2/19/2012 In Store Woodworking Show
Fri, 9:30-11:30am, beadLoc Project, 9:30-noon, Bowl Turning, 11:30-1 pm CNC Shark
Sat, 9-11 am Rockler Box Joint Jig, 9-2 pm CNC Shark, noon-2 pm Pizza Handle Turning, 2:30-4 pm Inlay Pen Turning
2/25/2012, Cabinet Frame Construction
2/26/2012, Salt or Pepper Grinder Turning Class $30.00

You can contact Rockler at (414) 774-1882. They are located at 845 N Mayfair Rd.

Woodcraft Class Schedule
Basic Bowl Turning with Sandy Sheahan, Sat, Feb 04, 9:30 AM - 3:30 PM
Day Time Intro to Bowl Turning, Mon, Feb 13, 9:30 AM - 3:30 PM
Basic Wood shop Tools, Table saw, Jointer & Planer., Thu, Feb 16, 6 - 9 PM
Power carve the American Widgeon, Tue, Feb 21, 5 - 9 PM

You can contact Woodcraft at (262) 785-6770. Location: 14115 W Greenfield Ave, New Berlin

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Raffle & Door Prizes
The January raffle prize winners are Carl Szopinski, Earl Binczak, Din Brick, Brian Halligen, Jim Fenske, Mike Mitten and Vern Eiler. Congratulations!

The lucky door prize winners were Jerry Tackes, Lyle, Husar, Greg Waldo, Jim Schlarb, Bob Jahncke, and Norm Lange. Isn't it fun to win? Congratulations to all!!
WWG Programs Workshops

Thoughts of February probably bring thoughts of cold weather, cabin fever, and Valentine’s Day. It should also bring thoughts of love. Love of art, love of a hobby (or profession), and the joys of camaraderie and fellowship. Come join us as we learn about making sculptures with that ever adaptable medium, wood.

February Program – ”The Art of Wood Sculpture”  
(Sponsored by Kevin Seigworth)

- **Thursday February 2nd**  Tom Eddington majored in sculpture at the University of Illinois in Chicago. He has painted, worked with photography, and done pen and ink drawings as an artist. The majority of his work has been sculptural in both stone and wood.

While he has always been an artist, Tom commented that it is very difficult to make a living as an artist. So he trained dogs to pay the bills. He was trained as a dog handler after joining the Army at age 18.

His sculpture has been exhibited in shows from Minneapolis to New York. His work is also included in corporate and public collections including the Pfizer Corporate collection.

Tom’s wood sculpture begins as an idea which he first draws on paper. He works to carve an organic form that projects energy and follows the grain of the wood he is working with. Tom uses saws, drills, mallets, and chisels to remove wood. Rasps, files and sandpaper further refine the object.

Tom will share with us his perspective on sculpting wood, the creative process and the tools that he uses to create direct-carved, in-the-round sculpture.

February Workshop - “Build a Wooden Box with Bob Dickey”  (Sponsored by Kevin Seigworth)

- **Sunday February 19th & 26th**  Bob Dickey presented his approach to wooden box making and displayed several of his creations at our October meeting. Here is the link to his website to refresh your memory: [http://www.woodnonline.com/](http://www.woodnonline.com/)

Bob has agreed to lead a WWG workshop to build of one of his wooden box creations in his shop. This is a two day workshop to be conducted on consecutive Sundays in February. Each participant will work along with Bob and will leave with a box ready for final sanding and finishing. This is a box that Bob sells for $285.

Bob will provide all the materials including the wood and the hinge hardware. Lunch is included both days.

There is a minimum attendance of 4. Max is 6. Fee for members: $160. This event will be held at Bob’s workshop in Mukwonago (NOT AT THE GALLERY). (9 am to 4 pm both days.)

Bob’s Workshop:  506 Valhalla Drive, Mukwonago, WI 53149

March Program – ”Working Smart” and “Design” with Garrett Hack

- **Friday & Saturday March 2nd & 3rd**  Garrett Hack is an internationally known craftsman that has been a professional furniture designer and builder for over 30 years. He is a Contributing Editor for Fine Woodworking. He also guest teaches at many of the woodworking schools around the country as well as holding classes at his shop in Thetford Vermont.


Garrett will be joining us to talk about Working Smart and Design. Please see Corey’s Corner for a description of the 2 day event.

March Workshop – continuation of a weekend with Garrett Hack  (Free workshop for current members)

Contact information for WWG Workshops

John Johnson  
9409 Nicholas Lane  
Spring Grove, IL  60081-8286  
815/575-9266  
Email: jejkvd@gmail.com
Wisconsin Woodworkers Guild

WWG Monthly Meeting
Thursday, February 2nd, 2012
6 PM doors open, board meeting
6:30 PM gathering
7 PM meeting begins

Topic: The Art of Wood Sculpture
Presenter: Tom Eddington

Tom will share with us his perspective on sculpting wood, the creative process and the tools that he uses to create direct-carved, in-the-round sculpture.