

Revolutions

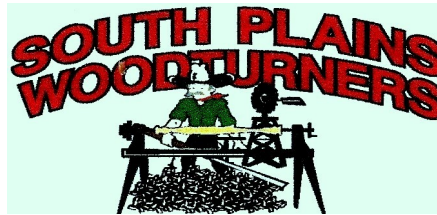
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NEWSLETTER FOR THE



Lubbock, Texas

Jim Bob Burgoon Demos Multi-Axis Turning



Jim Bob explains process using the handout



Marking reference points with parting tool

Everyone attending the December meeting enjoyed another excellent demonstration by Jim Bob Burgoon. His subject this month, Multi-Axis Turning, was filled with the information and style we have come to expect from Jim Bob.

Multi-axial turning, sometimes called off-set, off-center or multi-center turning, requires locating more than one center, thus axis, when a piece is turned on the lathe. The axes may or may not be congruent at one end of the piece. The axes may or may not be parallel.

As always, Burgoon's presentations take us through the necessary thought processes to perform the task. Again, one must be impressed with his ability to think out loud, if you will, for his audience.

Take catches for example. Burgoon asks "What am I doing wrong? He solves this problem with two possible answers: the reach from tool rest to the work piece and his bevel angle on the gouge.

Multi-axis turning creates an increased gap between the work and the tool rest. Jim Bob switched to a bowl gouge, gaining the thicker steel. Along with a greater safety factor, the thicker material in the bowl gouge reduces vibration.

Burgoon recommends a standard cutting orientation where the bottom of the bevel, ground to 45°, rides at the center point of the turning when the gouge is level with the center of the piece's axis, saying "the more acute the angle of the bevel, the 'grabier' it is."

Because off-set turning has lots of air in the revolution of the piece, Jim Bob told us that increasing the speed improved the cut and reduced the likelihood of a catch. "Use sharp tools and ride the bevel," Burgoon insisted.

Jim Bob also stressed the importance to using the body instead of arms to move the gouge.

Sanding, which we all know is Jim Bob's favorite activity, should be done after **each** off-set while the sanding target is true to the lathe's axis.

See Multi-Axis Page 3

Contents

President's Message	2
Christmas Party	2
Next Meeting	2
New Members	3
December Gallery	3
Tech Corner	5
Classified	6

Revolutions

Revolutions © is the newsletter for the South Plains Woodturners, an organization dedicated to promoting the craft and art of woodturning. Revolutions is published each month at Lubbock, TX.

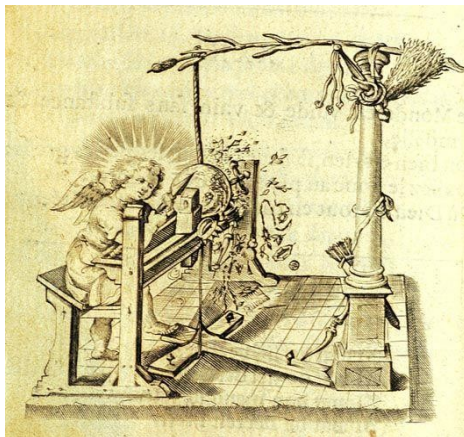
The South Plains Woodturners is affiliated with The American Association of Woodturners and The Southwest Association of Turners.

Direct any questions or comments about **Revolutions** to the editor:

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The Angel's Lathe

Previously, the newsletter has shown drawings and images of lathes. Here may be the rarest we can find.



This image, a copy of a wood block printing in *Typus Mundi*, a manuscript produced by Jesuits in 1627.

Typus Mundi is an example of the emblem books created during the 16th and 17th centuries. These provided a tool for

teaching and meditation.

The tool, the spear used to pierce Christ's side, is re-shaping the world.

And of course, we must ask, "What kind of wood are they turning?"

Christmas Party!!

The annual South Plains Woodturners Christmas party was a great success. It was another fine Bob Harbaugh production.

Kudos to David Turner, seen at right, who MC'd the event. Great job, David.

The club is indebted to Joyce Harbaugh, Karen Faulkner and Jan Trim for the decorations and table settings. Everyone enjoyed the result of your labors.



See Party Page 5

Letter From The President

I would like to wish everyone a Merry Christmas and Happy New Year. Last night we kicked off the season in woodturning fashion with our annual Christmas party. The entertainment, gift exchange and food were great and the fellowship was wonderful. For those of you who missed it plan on attending next year if possible and see what all the fuss is about.

We are going to begin the New Years Demos with a hands on for everyone on January 2. There will be several projects simultaneously demonstrated on both large and mini lathes. Come ready to have a good time and make some chips fly.

Ray Hughes

Next Club Meeting

January 2nd

At Target Sheet Metal
In the wood shop

South Loop 289 (see map on page 7)
Hands-on Training

Meeting starts at 10:00, but come early. Help make the coffee and visit with other turners.

The January meeting of South Plains Woodturners will primarily be devoted to hands-on wood turning sessions for the members. The regular meeting will be brief and the raffle speedy. Library returns will still be due and coffee and doughnuts will be provided.

There will be a minimum of five lathe workstations with instructors. Each member is encouraged to participate in one of the turning exercises during the hands-on sessions. To participate, you must be a member of and be current with your dues for South Plains Woodturners. If you are not a member and wish to participate, there will be an opportunity for you to join SPW or to become current with your dues at the beginning of the meeting. Hands-on participants will be required to sign a liability release form. You are encouraged to bring your own tools marked with owner identification, to bring your own eye protection devices, and to bring some wood blanks for your turning activities. For those of you who do not have wood to bring, there will be an opportunity to turn souvenir miniature baseball bats under the guidance of Bo Bowman who will also supply the wood blanks for the bats.

(Continued on Page 4 see January Meeting.)

Revolutions

New Members and Guests

Recently, the South Plains Woodturners has hosted several guests and two new members. At the November meeting three guests visited the club. These included Collin Weiland and Phillip Saffel of Lubbock and Loy Cornett from Lamesa.

Phillip has been talking about buying a lathe and Loy is reported to have visited Comanche Trails in their November meeting too.

Nick Millis, whose daughter, Jemina, joined the club this year is our newest member. Nick joined at the November meeting. Welcome, Nick.

Loy Cornett joined the club during the December meeting. Welcome Loy.

Rex Barbour was a visitor at the last meeting of 2009.

Multi-axis Turning (Continued from Page 1)

We also watched as Burgoon worked with his new texturing tool purchased earlier this year.

Jim Bob's handout, a Barbara Dill article from AAW magazine in 2007, opens a door to considerable explorations in multi-axis work. Since that 2007 piece, Ms. Dill has continued her own explorations, and demonstrates the process and its possibilities at clubs and symposia around the country. She has expanded the article, and her work can be found on her website, <http://www.barbaradill.com/paper.html>.

Barbara Gill's site is a must-see for multiple center concepts. She writes, "When the axis is changed there are only two possibilities: the cut is deep enough to form a new cylinder or it is not as deep and creates an arc on the wood."

She identifies and depicts twelve possible outcomes from multi center turning depending upon whether the axes are parallel or twisted.

Jim Bob's demonstration brings an awareness to the club of exciting woodturning opportunities.

Additional information about this process may be found in Ray Hopper's seminal work, *Multi-Centre Woodturning*, a Guild of Master Craftsmen 1993 publication. It is an excellent source for jigs. He describes both artistic and utilitarian uses for off-center work.

David Smith Reed, an American provides a jig on <http://www.davidreedsmith.com/Articles/TwoJawChuck/TwoJawChuck.htm#Two%20Jaw%20Chuck> to make a two jaw chuck that may assist multi-axis work.

On his site, <http://www.handandmachine.com/index.html>, Michael Werner offers an aesthetic tour of this type of work.

Finally, Graeme Priddle, who demonstrated the process at the 2002 National Symposium, can be found at <http://www.graemepiddle.co.nz/>.

December Gallery



Anthony Viglicky



David Turner



Dick Markham



Glenn Williamson



Harrell Ellis



Harry Hamilton

Continued on Page 4

Have a safe and Merry Christmas



See you on January 2

December Gallery (Continued from Page 3)



John Franklin



Kay Agnew



Mike Chambers



Larry Rogers



Mike Oglesby
January Meeting from Page 2



Randy Thorne

Other instructors will be Mike Chambers - bowls, Bob Harbaugh - finials & boxes, Ray Hughes spindles & threading, David Turner - weed pots & pens, and Jim Bob Burgoon ring holders and pens.

If you plan to participate in the hands-on activities, we ask that you RSVP to Jim Harris by e-mail at lapidarius@sbcglobal.net or by telephone at 797-6377 and state which turning activity you wish to pursue. This will help the meeting planners know how to allocate the available resources and to set up the work stations. If response is great enough and the time is needed we can take a break for lunch at Home Plate Diner and return to Target Sheet Metal for afternoon sessions.

Have a Great New Year

Drive carefully and Don't Forget

Club Meeting on 01/02/10!



Is That a Great Way to Start
The New Year? Or What?

Christmas Party (From Page 2)

The special entertainment, Celtic pipes and dancing came from Patrick McLaurin and Christina Proper, seen at left. The picture shows McLaurin playing the small pipes. In the picture below, he plays the Highland pipes.



Both entertainers are friends of Ray Hughes.

Throughout the evening the eclectic sounds came from our friends Mike Oglesby and Randy Thorne along with Curly Cook and Gary Beavers shown below.



Curly Cook, who has played with the likes of Bob Wills is shown in the black hat. Gary Beavers, from Clovis, is seated at the steel guitar. Beavers' work may

be heard on a number of notable entertainer including Barbara Mandrell. Just two of the musicians whose work have contributed to this area's musical renown.

Tickets to the Cactus Theater were presented to Mike and Vicki Oglesby in appreciation for all they have done for the club. Without Mike and Vicki letting us use their wood shop at Target Sheet Metal, the South Plains Woodturners would be a different looking organization. Every member knows our debt to Mike and Vicki.

Tech CORNER



New turners (along with some of us old dumb ones) may become confused by the terminology and jargon used by woodturners. Tech Corner will seek to help the new turners.

Cuts? Confused by all the types of cuts. There are shoulder cuts, V cuts, scraping cuts, cove cuts and shear cuts to list only a few. The term is over-used but, hey, we are woodturners and not linguists.

Some of the terms indicate how they appear; V cuts look like the letter V. Scraping cuts, however, refer to the process where a lathe tool *scrapes* the surface of the work. A little organization in our minds may help us to understand all the terms.

First one must separate cutting from scraping. In order to truly cut, one must be riding the bevel of the tool. This does not mean the bevel has to be pushed into the work, but such action may be used to burnish the piece. Scraping, on the other hand, is the process where the bevel is not against the work.

A gouge or skew, presented to the work so it is riding the bevel is like a sharp razor, slicing or shaving the wood fibers. Without presenting the bevel to the work, any tool becomes a scraper, pulling the wood fibers from the work.

For a moment, put aside all you know or have heard about the various cuts. Start with the basics. All our action on a piece turning on the lathe consists of only two types of cuts: push and pull.

Push cuts are made by pushing the tool into or against the wood. Properly done, push cuts give the turner a great control of the tool and its action on the work, allowing greater finesse. Gouges, skewers and parting tools may be used to make push cuts.

Contrarily, pull cuts, as the name suggests, are made by pulling the tool across the surface of the work. Ironically, pull cuts may be used both to hog wood from the piece and to make fine adjustments in the surface of the work. Gouges, scrapers and, perhaps, parting tools make pull cuts. A skew making a pull cut is being used as a scraper. Pull cuts are not cuts at all but scrapes.

If this has not thoroughly confused you. Wait until next month. When the Tech Corner will introduce you to a new concept, CAPP.

Revolutions

For Sale

Delta 46-111 (12X36) lathe for sale \$ 250.
Motor is suspect and the lathe does not include a
bench or stand.

Call Ken Romines at 806 241-0265

For Sale

Jet Model 1014 Mini Lathe Asking \$ 200
Call George Wills 806 785-2685

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