



Calendar

DPWW Regular Meetings

Usually the Third Monday at [St. James in Glen Ellyn](#)

- **May 18** Online via Zoom
- **June 15**
- No Meeting in July

DPWW Board Meetings

Usually the First Monday at [St. James in Glen Ellyn](#)

- **June 1** Online via Zoom

Future Activities

See Activities, page 3

- **June 27, 2020**
ReTool, Rockford and Del Webb
Millgrove Woodworking
- **July 31, 2020**
Visit to Jerry Carter's woodshop

Programs

No information at this time.



President's Message

I hope this finds you healthy and staying safe. We have had two board meetings via Zoom. It has worked reasonably well. This month we are going to host our general meeting via Zoom. From Our Workshop has always been a popular portion of our general meetings. With our having more time to be in our shops many have taken that opportunity to make many items. This presented us with an opportunity to incorporate these into a From Our Workshop power point that can be shared via Zoom. Please see the article in this newsletter for more information about our upcoming Zoom meeting on Monday, May 18 at 7pm. If you have never used Zoom there will be practice sessions prior to the meeting so that you can learn how to use Zoom. I want to thank **Whit Anderson** for all his efforts in getting us set up and encouraging us to use Zoom.

I still plan on somehow collecting Beads of Courage Boxes in the June time frame and delivering them to [Advocate Children's Hospital](#) in Oak Lawn. Contact me if you need one or more Beads of Courage. More information to follow in the near future on collection of the boxes.

Generally by the end of March each year the church has formulated its calendar for its next yearly schedule which runs June through May. Due to the Covid situation this has not occurred. The current discussion at the church is that for quite some time they will only allow 10 people to gather in the church and that religious institutions will be the last to be phased into gathering. This leaves us with a lot of uncertainty and still in the stage of so many unknowns. Hopefully, by the end of May we will know a bit more. In the meantime please be sure to join us online on Monday, May 18 at 7pm for our general meeting via Zoom.

George Rodgers



Secretary's Report **DPWW Board Meeting – May 4, 2020**

George Rodgers opened the meeting at 7:00 p.m. Present were Jim Harvey, Bruce Kinney, Whit Anderson, Tim McAuley, Peter D'Attomo, Mike Perry, Bill Hoffman, Mike Kalschuer, Mark Jundanian, Lee Nye, Mark Wieting, Jeff Kramer, Tony Evansky, Jerry Kuffel and Jerry Johnson. Any club member, new or old, is welcome to attend a board meeting.

[Due to the "social distancing" limitation and Shelter In Place restrictions caused by COVID-19 pandemic the board meeting was held by the video conferencing service - ZOOM.]

The April minutes and treasurer's report were approved.



President's report -- At the beginning of the meeting George took a few minutes to update the board on planning of meeting dates for the second half of the year. St. James has not yet come to any conclusions about this. They hope to move forward soon, but they also need to know what the government, health officials, and the bishop have to say. We have been informed that the hall we meet in may become more difficult to schedule as the church may have more need of it for educational purposes.

Standing Committee Reports

Membership (Mike Kalscheur) -- The roster total is 175.

Library (Tim McAuley) -- Unable to get into the church to access the library. No activity.

Prizes (Bruce Kinney) -- Nothing to report

Publicity (Keith Rosche) -- No report.

Toys (OBrian Parks) -- We still have one work shop session for 2020. It's currently scheduled for Woodcraft on Saturday, October 10

Newsletter (Jim Harvey) -- Jim was pleased with the response to the request for project photos to be used in the newsletter. The newsletter promises to be different and interesting to our members. The deadline for copy to be submitted for the newsletter is Saturday, May 9.

From Our Workshop (Lee Nye) -- Nothing to report.

Activities (Jeff Kramer) -- The June 27 visit to ReTool in Rockford and to Del Webb Millgrove Woodworking Shop in Huntley and the July 31 visit to Jerry Carter's woodshop followed by a barbeque and possible Cubs game are still planned but depend on COVID-19.

Programs (Peter D'Attomo) -- Two programs are on hold but both presenters are ok with it and willing to work with us on a different date.

A/V (Mike Perry) -- Mike was able to retrieve the A/V

system from St. James and has completed maintenance work.

Web (Whit Anderson) -- The website has had an update. The navigation has changed and the new background color are the most obvious changes. People using the Edge browser will need to be sure they have the very latest version to use the new navigation. Temporarily there is alternative navigation at the bottom of each page.

Old Business

Auction Replacement -- Tabled due to uncertain schedule.

Beads of Courage -- Bead boxes will be collected in June. Contact Peter D'Attomo if you need beads.

New Business

Zoom FOW Discussion -- As the outlook for being allowed to have a large group meeting is poor, the board had a very productive discussion about holding some kind of online event. There were a wide variety of opinions about what should be done but most of the discussion centered on using Zoom video conferencing to do a project sharing From Our Workshop. It was decided to try using Zoom on Monday, May 18th at 7:00 pm (the time our next general in-person meeting was scheduled). A committee consisting of Whit (Chair), Bill, George and Mike P. will formulate the plan and handle the implementation.

Guidelines for Social Distancing When Onsite Meetings Resume - The board talked over what meetings might be like when general, in-person, meetings resume. Seating, masks, and other precautions were considered. It was decided to get more specific when it becomes apparent that in person meetings are about to resume.

The meeting adjourned at 8:31 pm.

Respectfully submitted,
Jerry Johnson

Online Discussion Forum

Have a woodworking question you need answered? Want to share progress on a project? Try the [DuPage Woodworkers online forum](#). You can post a question (or answer a question someone else has asked). You can share a project you are working on. Anybody can read the forum, but you need to register to post on the forum. There is some information to get you [started on registering](#).

If you are interested in the forum, but not interested enough to check each day to see what is posted, any member registered for the forum can sign up to get a daily email telling them what was posted the day before. Don't worry about getting buried in emails, there hasn't been anywhere near a lot of traffic on the forum. Besides, you can stop the emails any time you want. If you decide to sign up for the daily emails check out "[Get an Email Daily Digest of New Posts](#)" in the forum for details on signing up.



Online May Meeting for DPWW

The DuPage Woodworkers club is going to hold an online meeting at 7:00 pm on Monday, May 18th. Our president, **George Rodgers**, will give an update about future meetings. This will be followed by a From Our Workshop sharing of projects. The projects we use will be the projects most recently submitted by email to **Jim Harvey** for the newsletter. There were a lot of projects, thanks!

The online meeting will be held using Zoom software. Each member will receive an email link that will allow them to log in from their home computer. The software is free and you do not have to set up an account. Some members will have used Zoom before, for others it will be their first experience. There will be some opportunities before the meeting to give your Zoom setup a little test. If you have a webcam that's great, but not essential. You will need speakers or headphones to hear what is said during the meeting.

During the From Our Workshop section you will be able to see member's wood projects that we will show in a PowerPoint slide show using the previously submitted photographs. There will not be projects held up to a webcam during From Our Workshop. The creator of the project will have an (optional) opportunity to speak briefly about the project similar to our in person meetings. Zoom has a chat feature. If you have a question or comment for the creator of the project you can simply type a question mark in the chat box. That will alert the host that you have something to say and he will arrange for your microphone to be enabled.

More information about using Zoom will be sent to members by email. If you want to get a head start, go to <https://zoom.us/download> and install the program on your computer or phone. If you already have Zoom, upgrade to version 5 (they will stop supporting earlier versions at the end of May).

We look forward to seeing you May 18th!

Mentors List



Quite a few DPWW members have mentioned they would like to be able to contact someone in the club when they have a question about some aspect of woodworking. On-line videos and woodworking forums are great ways to learn, though sometimes having a knowledgeable person

as a mentor works better.

If you cannot wait for a general meeting to ask a question about a problem in your shop, a club Mentor list is available for all members to refer. Many talented club members have already answered the call to share their expertise. As the Club motto says, "Learning by Sharing" is part of being a member.

The Mentor list is available on the [club website](#) under the "Members Only" link.

If you have a special woodworking-related skill or expertise, or maybe you've learned these skills the hard way and are willing to ease the path for beginning woodworkers, let me know if you would like to be added to the Mentor list.

Mike Kalscheur



These have not been cancelled yet:

June 27, 2020

Visit to ReTool, Rockford and Del Webb Millgrove Woodworking Shop in Huntley Illinois: Still planned dependent upon the COVID status.

July 31, 2020

Visit to Jerry Carter's woodshop, followed by a barbeque and possible a Cub's game. (this is on a Friday): Activity is still planned

Jeff Kramer

Logo Clothing



You may wish to order a shirt or hat for Father's Day. Hats are \$18. We need to order a minimum of 6 long sleeve 'T' or polo shirts to have the club logo embroidered on the shirts. Sizes m thru xl are \$22. Size 2xl is \$24. **Carl Shaffer** will take your order at the meetings or by phone

(number in member list).

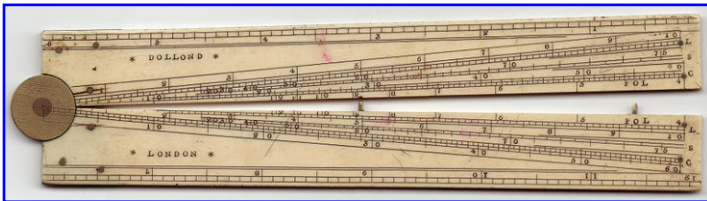
A few 2xl and 3xl long sleeve 'T' and polo shirts are available at the special \$20. each.

Carl Shaffer



Sector Adventures

In March I saw an article from the [Lost Art Press weblog](#) advertising a free plan on the [First Light Works web site](#), for making a paper Sector, published just to pass time during the quarantine. I'd [heard of the Sector](#) but never looked into it as a woodworking tool so I download and printed the design and instructions. I'm hooked on this tool, but **how does it work?** Down the rabbit hole I go.



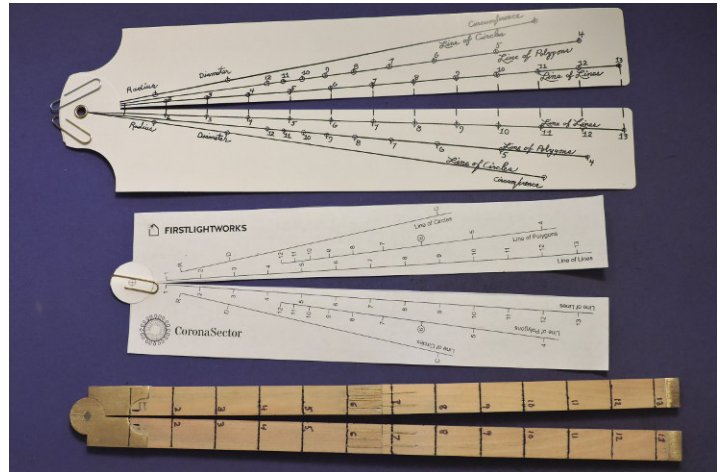
Sector from [Wikipedia](#)

A Sector is a very old tool to graphically lay out proportions with dividers. Based on the principles of similar triangles, it's mainly used for scaling drawings but can be directly applied to a project if necessary. The tool opens to a wide V where you can, on the Line of Lines, see that the distance between the "6" markings is half the distance between the "12" markings, and the "4" marking separation is a third of the "12" separation. That much is intuitive, useful for scaling a drawing up by say, a third. Quick – how tall is a 7 1/2" drawer front if scaled up by a third? Set your dividers to the height of the front, open the sector so the divider just spans the "9" markings, then open your dividers to span the "12". No math involved, and mathematicians were scarce in the 17th century.

There is also a scale labeled "Line of Circles". It has markings for "Radius", "Diameter", and "Circumference". These are also intuitive proportions. $Diameter = 2 \times Radius$ and $Circumference = \pi \times Diameter$ -- linear relationships.

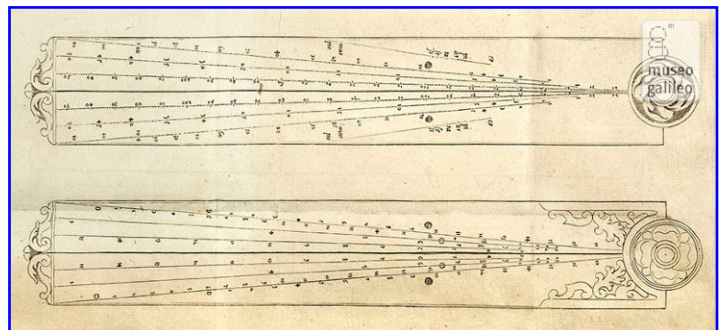
Similar models of the Sector are freely available on Jim Tolpin's [By Hand And Eye web site](#). He will sell you an 11 inch assembled model. Also [Brenden Gaffney's web site](#) has information and a link to an easy to follow [YouTube video](#) on the subject. Brenden appears to have an obsession with ancient measuring techniques, you can buy a ruler calibrated in Cubits from him. Brenden also teaches occasional classes at Lost Art Press on making your own Sector. The description file that accompanies the Tolpin,

Gaffney, or FirstLightWorks models give several examples of a Sector in use. Gaffney's [YouTube video](#) above, is also filled with information.



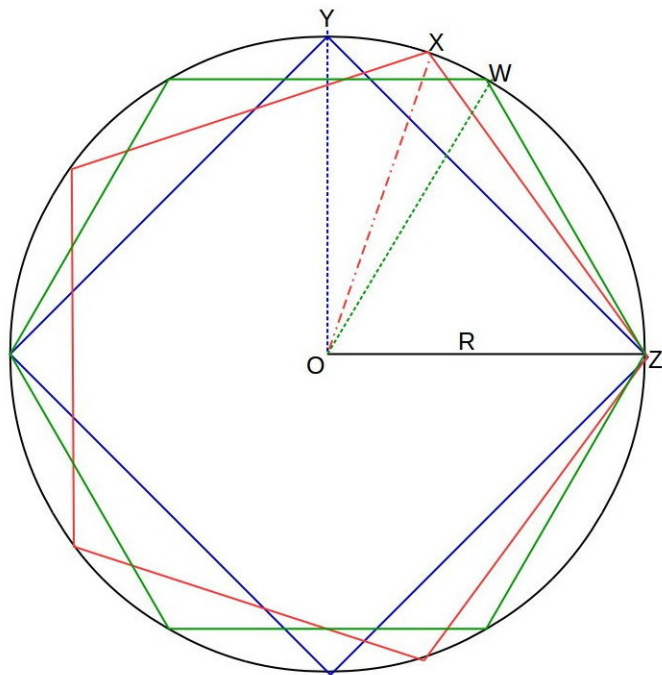
Top: [byhandandeye.com](#), Middle: [Firstlightworks.co.uk](#), Bottom: modified folding ruler

[Galileo is often credited](#) with the invention of the Sector in the 1690s, but there are versions [known from at least a century earlier](#). Galileo perfected and expanded the idea of a proportioning tool as an aid to military operations and his design includes scales dealing with solid objects, like cannonballs. He made a hundred copies in brass of his design, which he called a "Proportional Compass", then wrote a document on using the tool, but printed only 80 copies for those who bought one of his instruments. There were no pictures in the tutorial so it was useless unless you had the purchased tool in hand. That's how you copyrighted things in the 17th century.



Galilean Compass: Front and Back ([yumpu.com](#))

The FirstLightWorks and Tolpin Sector models have a third scale: "Line of Polygons". You draw a circle, transfer the radius to the Sector Polygon scale at the "6" division, then with the dividers pick off the correct



Circle with Inscribed Square, Pentagon, and Hexagon

side length to inscribe a Polygon with 4 to 12 sides inside the circle. This is very useful, but not as intuitive as the Line or Circle scales.

IF I can find a suitable hinge, I'd like to make my own copy of the Tolpin Sector. The "Line of Circles" and "Line of Lines" are linear and easy to lay out but "Line of Polygons" is decidedly not-linear. There are web sites that calculate the length of a polygon side (some giving wrong answers) but Google could not find a description that showed how the Polygon line worked. After many pages of crossed out equations and a [less than satisfactory prototype](#) based on a cheap ruler, I found a [geometric hint](#) that led to a solution to the problem: How far from the pivot point are the marks for the various polygons?

Skipping over all the details, the solution is:

$$x = l \sqrt{1 - \cos\left(\frac{360}{n}\right)}$$

where n is number of polygon sides, l the total length of the Polygon Line, x is the distance from

the pivot point. These calculated distances agree with the Tolpin rule I have.

So of course I made a spread sheet. What ancient tool is complete without it's own spread sheet? Input the length of the Sector's scale and the sheet gives

Mark	Line of Lines	Mark	Line of Polygons	Mark	Line of Circles
1	0.904	4	11.750	Radius	1.870
2	1.808	5	9.767	Diameter	3.740
3	2.712	6	8.309	Circumference	11.750
4	3.615	7	7.210		
5	4.519	8	6.359		
6	5.423	9	5.683		
7	6.327	10	5.135		
8	7.231	11	4.682		
9	8.135	12	4.301		
10	9.038	13	3.977		
11	9.942				
12	10.846				
13	11.750				

distance from the pivot for each graduation. You can also change the number of graduations on the Line of Lines scale.

[You can download a copy of the spread sheet from Dropbox.](#)

I encourage you all to visit the [FirstLightWorks](#), [Tolpin's](#) and [Gaffney's](#) web sites to access tutorial instructions. Also Jim Tolpin wrote "Secrets of the Sector" in the [June 2011 Popular Woodworking](#) magazine. Gaffney's [YouTube video](#) is probably the best introduction. I swear it's magic... Really!

Find more ramblings and the math behind the equation above on [my Wordpress site](#).

Jim Harvey

Internet Woodworking Link of the Month

Tom Fidgen, The Unplugged Woodshop

This is another name that many of us have seen. He has written for several woodworking magazines, has two books, and has a big internet presence on YouTube and his own site. Tom's workshop is in Toronto, he hosts many classes emphasizing hand tools, and plays in a Rock band.

The web site has hundreds of tutorials but for most, a subscription is required at \$20/month.

- <https://www.theunpluggedwoodshop.com/>
- <https://store.theunpluggedwoodshop.com/products/the-unplugged-woodshop-book>
- <https://store.theunpluggedwoodshop.com/products/made-by-hand-book-plans>

Jim Harvey

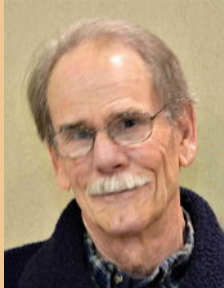
What are YOUR favorite links?

mail to wb8nbs@prodigy.net



Newsletter Notes

Jim Harvey



THANK YOU! for the huge response to my request for project photos. If your picture is not in the IOW section below, don't worry, it will be in the June issue. Please hold any more project photos because.....

The club is moving to a more formal From Our Workshop process while normal meetings are not possible. We will collect project submissions through a short Google form, then we will assemble the photos for an online Show and Tell via Zoom. May 18 will be our first virtual FOW, much more information will follow. See **Whit Anderson's** article in this issue.

Even Dilbert is working from home.

Dupage Woodworkers Hall of Fame

This month I present the top 30 types of project finish shown in "From Our Workshop". This is the last of the data available from the web site Gallery. Multiple finishes are counted multiple times e.g. "Oil, Wax" is counted under both Oil and Wax. There were 2130 entries tallied.

poly	307	mineral oil	37	walnut oil	10
oil	179	gen turners finish	34	acrylic	9
wax	178	linseed oil	32	oilstain	9
lacquer	161	ca glue	26	acrylic paint	8
danish oil	141	tung oil	23	dye stain	8
deft	140	spray poly	21	gel satin	8
none	112	bush oil	11	arm r seal	7
wipeon poly	104	dye	11	sealer	7
shellac	85	krylon	11	triple thick glaze	7
stain	53	milk paint	11	butcher	6
paint	48	salad bowl	11	craft paint	6
varnish	42	spar varnish	11	gel stain	6
malooof oil	40	truoil	10	zar	6

In Our Workshop April 2020 - Click to Enlarge



Tulips That Won't Die - Al Reiman

FROM OUR WORKSHOP is on hiatus

Many of these projects in progress and more can be seen on the [club's Web Page](#).

If you're not connected to the [Forum](#), you can submit photos of your current projects via Google Forms for inclusion in next month's newsletter. Details on how to do this will be mailed soon.

- *Jim Harvey*



**Keepsake Box, - George Rodgers
Maple, Padauk - Waterlox**



**Roy Galbreath:
Cutting Board
Maple &
Brazilian
Cherry**



**Roy Galbreath:
Cutting Board?
OSB, Bamboo**



**Dave Pepalis: Fretless Banjo
Walnut, Maple, Wenge - Tung Oil**



**Plaque - Bob Bakshis
Oak & Oak Ply - Poly**



**Box - Mark Wieting
Black Koa - Shellac & Poly**



**Dave Pepalis: Bath Vanity
Walnut, Oak Ply - Water Poly**



**Lee Nye - Carved Bandsaw Box
White Oak - Tried & True**



**7" Bowl - Mark Weiting
Spalted Maple - Wipeon Poly**



**Five Boxes - Bruce Kinney
Maple, Cherry - Deft**



**Bead Boxes, Cutting Boards -
Bruce Kinney
Padauk, Scraps - Deft, Min. Oil**



**Car Hauler - O'Brian Parks
Pine**



**Teabag Boxes - George Rodgers
Ambrosia Maple - Waterlox**



**Photo Album, - Tim McAuley
Red Bud - Poly**



**Napkin Holder - Tim McAuley
Red Bud - Poly**



**13' Sea Skiff - Patrick Cahill
Plywood,**



**Ron Colliander - Tool Box
Maple, Cherry, Oak - Shellac,
Poly, Wax**



**Fly Tying Station - Paul Colombo
Oak, Walnut, MDF - General Fin.
Urethane**



**Hall Table - Ron Colliander
Walnut, Maple - Shellac,
Lacquer, Wax**



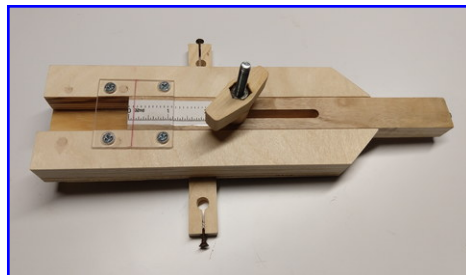
**Plaque - Bob Bakshis
Oak Ply - Poly**



**Bookcase - Brian Hamilton
MDF, Pine, Poplar - Semigloss
Latex**



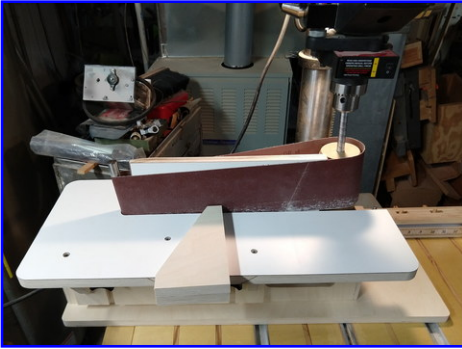
**Beam Compass - Jerry Kuffel
Maple**



**Jerry Kuffel - Thin Strip Rip Jig
Maple**



**Clamps - Jerry Kuffel
Red Oak**



Sanding Attachment - Jerry Kuffel
Birch Ply - Laminate



Toys - George Rodgers
Birch Ply - Paint



Jewelry Cabinet - George Rodgers
Walnut, Maple - WaterLox



Box - Wayne Maier
Walnut - Padilla



Tea Tray - O'Brian Parks
Walnut



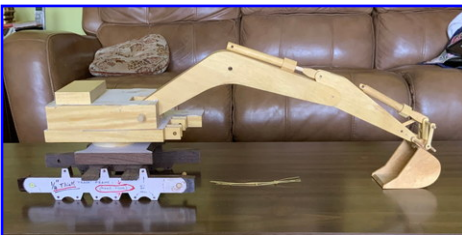
Clock - Wayne Maier
Maple - Tried & True



Wedding Cake Stand - Rick Dojutrek
Black Cherry



More Clocks - Wayne Maier
Oak - Fumed, Dye, Shellac



Excavator - Roy Galbreath
Wenge - YellowHeart



Rick Dojutrek - Walnut Dresser
Walnut (in progress)



Neighborhood Library - Harry Trainor
Cedar & Pallet Wood