

Chips & Bits

Inside This Edition

July 2020



Paul Bartlett

Kline Bottle

Providing an environment that fosters the art and craft of woodturning

A Publication of the Peace River Woodturners

Kline bottle

Our front cover for this months newsletter gives all something to think about.....What is a Kline Bottle? In our age of the Covid 19 Virus, strange things are happening in members shops.

The following definition will give you something to think about and to try to figure out:

In topology, a branch of mathematics, the Klein bottle is an example of a non-orientable surface; it is a two-dimensional manifold against which a system for determining a normal vector cannot be consistently defined .

Now to keep you more thoroughly confused, please continue to read more about this:

The Klein bottle is a closed [nonorientable surface](#) of [Euler characteristic](#) 0 (Dodson and Parker 1997, p. 125) that **has no inside or outside**, originally described by Felix Klein (Hilbert and Cohn-Vossen 1999, p. 308). It can be constructed by gluing both pairs of opposite edges of a [rectangle](#) together giving one pair a half-twist, but can be physically realized only in four dimensions, since it must pass through itself without the presence of a [hole](#). Its [topology](#) is equivalent to a pair of [cross-caps](#) with coinciding boundaries (Francis and Weeks 1999). It can be represented by connecting the side of a square in the orientations illustrated in the right figure above (Gardner 1984, pp. 15-17; Gray 1997, pp. 323-324).

It can be cut in half along its length to make two [Möbius strips](#) (Dodson and Parker 1997, p. 88), but can also be cut into a *single* [Möbius strip](#) (Gardner 1984, pp. 14 and 17).

The above picture is an [immersion](#) of the Klein bottle in \mathbb{R}^3 (three-space). There is also another possible [immersion](#) called the "figure-8" [immersion](#) (Apéry 1987, Gray 1997, Geometry Center). While Gray (1997) depicts this embedding using the [eight curve](#) (aka. lemniscate of Gerono), it can also be constructed using the usual (Bernoulli) [lemniscate](#) (Pinkall 1985, Apéry 1987).

The equation for the usual [immersion](#) is given by the implicit equation

$$(x^2 + y^2 + z^2 + 2y - 1)[(x^2 + y^2 + z^2 - 2y - 1)^2 - 8z^2] + 16xz(x^2 + y^2 + z^2 - 2y - 1) = 0$$

Thank you Paul for the outstanding complex turning. Now I'm even more confused.....HA!! Still not sure what it is or what it does..... but I like it.

PRW Presidents Notes

It's the middle of July, and life as we knew it is still nowhere near "normal". I hope all of you are staying healthy and finding ways to stay cool, calm, and relaxed. I hear many of our northern members are not escaping the relentless heat this summer, either!

There is currently no opening date scheduled for the Cultural Center, so we will keep on with the online meetings for another month to keep everyone safe! PRW August ONLINE Meeting - Thursday, August 6, 2020 - 7:00 PM Eastern Time

Watch for the invitation I'll send to your email, and you can click on the link to join electronically on our regular meeting night in June. Please make sure that you have installed the ZOOM software on your device prior to the meeting, so you can test your audio & video with their system - That way you can see/hear everything & ask questions, and we'll get to see your smiling face!

The President's Challenge (a skills building exercise, so to speak) I suggested for July was turning a hollow form - Small or large, thick or thin-walled, lidded or not - Your choice.

Here's your newest challenge: Since so many stores are having "Christmas in July" promotions right now, we added some quick and easy ideas for turning different Christmas ornaments to the Resources Ornaments page on the website. There's a "Wobble Santa" video, and tutorials for simple icicles, trees, snowmen & bells to let you fine-tune your spindle-turning skills (maybe even try using the skew chisel if you are adventurous!?) These are all quick projects that can be made with plain or scrap wood, or with some of that pretty wood you have set aside and haven't found a use for yet.

You can see great pictures of our Member's work on the the JULY SHOW & TELL page of the PRW website, along with previous month's photos, all found towards the bottom of the EVENTS page.

Don't forget to turn a piece or two every month for the Cultural Center's Gift Shop donation box at a meeting. Small birdhouse ornaments are great, and any turnings that you might feel are imperfect are welcome, too! Don't put those Flawed Gems in the dustbin, bring them to donate at the meeting! No one else sees those flaws!

Thank you all for your continuing support and involvement in the PRW. Stay safe and healthy!
Cheri Bauer, President send email to: peacriverwoodturners@comcast.net

___ The Silver Fox Tips from Past Experience... The best thing about being wrong seems to be the joy it brings to others! Tact is what you thought, but didn't say. To stay youthful, make sure you stay useful...

Happy Turning.....

Lathe Dust Collection

Story below is what **Bil Tucker** does for dust collection on his lathe

I cleared off the table on which my mini-lathe is mounted and dug out my unused dust collecting “system”. I cut a 36” length of material off of a 20” wide roll of thin aluminum flashing. This fit very nicely, and snugly, between the ‘legs’ of my mini-lathe as seen in the accompanying photos. Then I cut two side walls of scrap wood and shaped the hood and secured it in place (temporarily) with tape. This allowed me to mark the size and location for cutting the metal to mate it to the dust collector ‘funnel’; again, secured with tape (temporarily). It works! It keeps the lathe area cleared of almost all sanding dust and much of the turning chips; mission accomplished.



SHOW & TELL



Segmented Florida Lightning Whelk Shell
Bob Roehrig



Kline Bottles by Paul Bartlett

SHOW & TELL



Walnut Platter
Dave Brethauer



Dizzy Bowl
Ray Fenton

SHOW & TELL



Jessie Goodwin likes to turn BIG and this needed lots of room.

Vase is 18"x26" and the pedestal is 18"x 17" it is a two piece turning.

The pedestal is hollow all the way through with no top or bottom.

Made from Cuban (Florida) Mahogany

(Don't try this on your Mini lathe)

SHOW & TELL



**Larry McClishes new shop
(To Clean)**



**Walnut Bowl
From Larry's new shop**

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**Pepper Grinder
Rod Castle**



**Pepper Mill
Rod Castle**

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Art Landry
Mobius made from Eucalyptus



Bob Shaffer
magnetic knife holder

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**Ted Beebe
Nested Cherry**



**Bill Tucker
Ornaments**

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Chapter Information

Peace River Woodturners Inc. (PRW) is an organization formed for individuals interested in woodturning and was formed on Oct 1, 2007. The primary purposes of the PRW are consistent with the fundamental purposes of the American Association of Woodturners: To provide information, education and an organization for those interested in turning wood.



The PRW web site can be found at:
www.peaceriverwoodturners.org



AAW site can be found at:
www.woodturner.org

Photo's

Photographs for this months "Chips & Bits" were provided by Bob Roehrig. If you have digital photo's that you would like to have considered for use in the newsletter, please send them along with any articles to the editor at:

rjroehrig@gmail.com

Membership

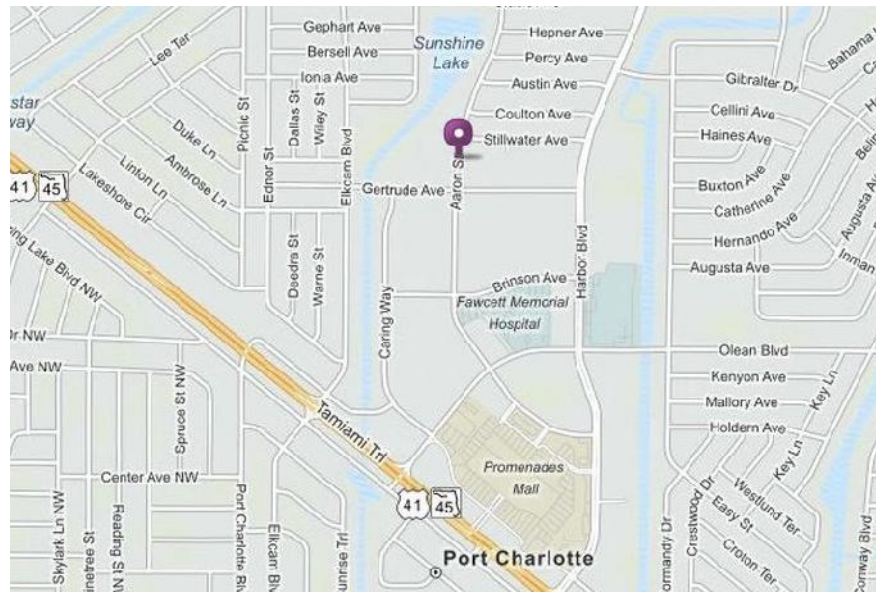
Yearly chapter dues are \$50 per individual or \$60 a family. Membership is for the calendar year. These dues help the club provide tools for our monthly demonstrations, bring in outside demonstrators, pay room rent, have a yearly picnic and other club related activities.

Meeting Location

Our Meetings are on the first Thursday of the month starting at 6:30 pm and ending by 9:00 pm. We meet at the **Charlotte County Cultural Center** 2280 Aaron St. located in Port Charlotte, FL



**Our next meeting is:
Thursday ??????????**



Upcoming Events

PRW meeting:

Demonstration:

Library

The Library is available for all current club members. The club library contains Books, magazines, and DVD's available to check out.. A list of materials is available on the PRW website:

www.peacriverwoodturners.org

Please help us maintain the library by returning checked out items promptly. The library is maintained by Mark Yates. New material can be ordered by request.