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AUGUST 2019

BIG BROTHERS BIG SISTERS

No BBBS event in July but they'll be back in August.

In the summertime the Big Brothers and Big Sisters usually slow down a bit. Everybody has their summertime activities lined up, so we skipped a month until the last week in August for another of the exciting events that the BBBS is known for. A project has not been decided on yet but we're sure that John will come up with another winner like last month's stress ball project that had everyone in stitches and a terrific time was had by all.

PROJECTS

Tony's Aztec Calendar update

Tony Badzioch is progressing in baby steps on his very intricate Styrofoam sculpture. Obviously the programming is very complex. Tony's using Bridgewire's Makerspace Version of the popular VCarve CNC design software. VCarve provides the Gcode that directs the movement of the CNC Router's cutting head. VCarve makes it very easy to transfer your artwork into vector based files that are compatible with the router's operating software. VCarve is available on the desktop computers in the conference area and Tony's excited to show us how to do it.

FACILITIES

3D Printers are in operation

Special thanks to Chris Spitler for maintaining and upgrading Bridgewire's 3D printers. The Monoprice Maker is very simple and easy to use. Chris has spent some time bringing this printer up to standards so it's working better than ever. He's also been working on the Malyan 180 to improve the heating characteristics and adjust the extruder head offset to the original specifications. This printer should be putting out 2 color 3D prints again very soon. An excellent set of manuals for these hardworking machines is available in the 3D lab. Don't forget, the 4th Thursday of every month is the 3D printing workshop. Chris is extremely knowledgeable about these machines which makes it a prime opportunity to get to know these versatile tools.

Sheet metal brake and bead roller upgrade and repair.

Fortunately for the rest of us, Chris has been busy upgrading and repairing the sheet metal brake and the bead roller. Putting them back in operation after a long absence. There wasn't much on you tube about the Brake but here's a good one showing how the bead roller works. Bead Roller Video

Chet Stites's Lathe and Mill Classes,

Wednesday evening, the 31st of July, Bridgewire hosted a very informative and hands on demonstration of our massive Clausing Colchester lathe. Chet Stites, an educator and expert machinist, who we all know as the coach of the Hug High FIRST Robotics team, has brought the donated tool up to working condition and offered this great class on the operation and maintenance of this awesome machine. John T., Dave Heit, Chris Spitler, and Lance Townsend all got a terrific lesson with Chet encouraging the class to step up and operate the equipment at all the different

stages, stressing safety and cleanliness. Chris found a remedy and repaired the power feed on the lathe by the end of class. We'll be looking forward to more classes with Chet. The next one planned is for the 4 axis milling machine. Watch for more information on dates and times.

Facilities Officer

Bridgewire is still in reasonably desperate need of someone to relieve Eric of the responsibilities of maintaining the Bridgewire infrastructure. Tony Badzioch has stepped in temporarily but the search continues.

The key to keeping Bridgewire's fee schedule as it has been, is the cooperation of every member. We need one continuous person who can coordinate the various projects with one or two others to help complete tasks. With a small group like that the shop could run efficiently without too much effort on anybody's part.

Bathroom #2

This project is temporarily stalled due to the departure of one of our great members. Pete Casillas, who had to leave Bridgewire for personal reasons. Since Pete had tentatively taken on the project, we need a member or two to step up and get involved with the second bathroom renovation. It's all prepped and ready with some new plumbing having been installed by the property management to cure some leaks that were found during the demolition phase of this important improvement in the infrastructure. This will be an excellent opportunity to get some hands on experience in bathroom plumbing technique.

ARTICLES STILL NEEDED!

The Newsletter

If you have an article in mind or just a particular subject that you would like to see in the newsletter please email your entries to Lance, at lance@ipc-solar.com

EDUCATION HAPPENINGS

BB&BS upcoming August workshop

The next Big Brothers and Big Sisters Event is scheduled for August 28th. The project is to be determined. For more information contact John at renoscuba1@gmail.com .

Lathe and Mill Classes

Keep watching for the upcoming 4 axis mill class and more from Chet Stites. For more information contact John at renoscuba1@gmail.com .

Regular Monthly Classes and equipment Safety Training:

- **1st Thurs – Welding Shop:** Safety Demo + knowledgeable user check off - by Lee Elliot
- **2nd Thurs - Laser Cutting:** Safety Demo + User Training.- by Eric Bradford
- **3rd Thurs - Wood Shop:** Safety Demo + knowledgeable user check off - by Roman Hruska.
- **4th Thurs - 3D Printing:** Safety Demo + User Training.- by Chris Spitler

***Recurring Education classes and events**:*

- **CAD Class:** Learn 3D CAD modeling so you can make items to 3D print or machine on the CNC Wood router...
- **CNC Wood/Plastic Router Classes (Intro):** Learn the basic principles of CNC wood routing on the Shapeoko 2 router. This class will introduce you to the basic process steps so you can machine small items. This class is free to members and has a $20 fee for non-members.
- **CNC Wood/Plastic Router Classes (Adv):** Apply the principles of CNC wood routing on the Greenbull Router. This class introduces you to a powerful 3 Horsepower router spindle for cutting large and thick materials. The **(Intro)** class is a prerequisite to this class. You must be a member to take this class and has a $30 fee.
- **Embedded Systems Group:** 3rd and 4th Tuesday of the month with lessons in soldering, basic circuitry and electronics projects.

Groups meeting at Bridgewire

- Big Brothers & Big Sisters (activity monthly)
- Bridgewire Game Night Group
- Your group can meet here also. The only requirements are that at least one member of the group must also be a Bridgewire member and that the group obey the rules of our Policy Manual. Schedule your event per the calendar instructions below.

AMAZON PAYS BRIDGEWIRE

We use Amazon SMILE.

When you make a purchase through Amazon, THEY will donate to our non-profit Bridgewire, if you setup your account to do so. All you have to do is login to your Amazon account through smile.amazon.com before you make your purchase. Specify “Bridgewire” as your charitable organization. Many of us have installed Amazon Assistant (quick link) to easily return to AmazonSmile when you login to Amazon. Each donation is small, but if we all participate this could add up.

Bridgewire got a $59.22 check from Amazon Smile last quarter.

FINAL NOTES

Clean up for the cleaning crew?

Bridgewire’s industrial cleaning service has been doing a terrific job of keeping the shop tidy and dust free. We can all help them focus on the deep cleaning aspects of their job by keeping work areas organized and cleaning up after ourselves. Let’s not forget that Bridgewire is a co-operative facility that relies on member participation to maintain the facilities while keeping an affordable fee structure. This service frees us to spend more time on infrastructure issues. There’s plenty of need for repair and maintenance of the tools and equipment.

New members

Welcome to all these new members:

Birken Schimpf, Daniel Davis, Daniel Grattan, Daniel Johnson, Evan Walsh, Jacob Stites, K Pawley, Michael Winders , Scott Medellin, Scott Shadrick, Wesley McKee.

BRIDGEWIRE CALENDAR

BELOW Click on “Calendar” to go to the Bridgewire calendar with interactive event details.

Bridgewire Calendar
August 2019

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Mon	Tue	Wed	Thu	Fri	Sat	Sun
	30	31 5 pm - 8 pm Lathe Class	August 1 6 pm - 9 pm Open House Night 7 pm - 9 pm Metal Shop and Welding	2	3	4
	6	7 6 pm - 7 pm BW Board Meeting	8 6 pm - 9 pm Open House Night 7 pm - 8:30 pm Laser Cutting & Etching	9	10	11
	13	14 5 pm - 8 pm Mill Class	15 6 pm - 9 pm Open House Night 6:05 pm - 8:05 pm Wood Shop	16	17	18
	20	21 6 pm - 7 pm BW Officers Meeting	22 6 pm - 9 pm Open House Night 7 pm - 8:30 pm 3D Printing	23	24	25
	27	28	29 6 pm - 9 pm Open House Night	30	31	1

ALL MEMBERS, If you would like to add an event. Email us at info@bridgewire.org or click on the button below the calendar to schedule your event with details and contact info. The new event will be approved by an officer or director to make it show up. Your events can be any project you want to share or get help with. Add Event

Calendar