BridgeWire MAKERSPACE

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JUNE 2019

BIG BROTHERS BIG SISTERS

Glass Etching

Big Brothers, Big Sisters and all the littles had a great time at the May 29th event, this month's project was Glass Etching . A fun project for everyone. Bridgewire supplies all of the stencils, materials and workspace to create a memorable learning experience. A great opportunity for folks to get together at Bridgewire and create useful and valuable items for the home and gifts. Thanks again to all the big's that volunteer their time and put their heart and soul into these relationships.

PROJECTS

Bridgewire Solar

Craig Bergland is a standard fixture around Bridgewire and has always been the Solar guy. Some of Craig's creations are shown here but he has many more including more solar cookers and his fresnel lens charcoal starter. The photos you see are his solar cooker and solar coffee roaster . Click here to see the coffee roaster in action. "my Ft2 cooker has received good attention on internet social media, as it is simple to build, non-tracking & performs

many functions. We have built many of them at Bridgewire & it's always fun. I look forward to putting on another workshop in the near future". Craig's website secretsolarinstitute.com explains more . . .

Click here to see Craig's coffee roaster Instructable.

Solar Still

Craig has put considerable effort into sharing his unique ideas with the world, as you can see in his website and the instructables that he has created. Craig has a very simple and elegant little solar still that has many uses from making medicine to fuel.

Click here to see Craig's solar still Instructable.

Gravity? What gravity?

Daniel Golightly spent some late nights perfecting this gravity defying bottle holder as a wedding gift. After several tries it looks like he made it work. His first try on the laser cutter turned out to be just perfect.

Follow us on Facebook. Daniel has been posting his projects so we can keep track of his progress. Facebook is great way to reach our Bridgewire members.

Honey Mead

Looks like it's time for another batch of mead.

If you ever wondered what was lurking under the kitchen counter for the last year or so that's what it was.The mead adventure was initiated by Zoe Miller of Grassroots Books & a founding Bridgewire member. We made 5 or 6 one gallon batches, all different, with organic honey. Some had added yeast & others used natural yeast in the honeys. All came out well. There is a 1 gallon container left in the kitchen we might use for tasting at some future time?

A side note, mead gets better as it ages... ours is well aged.

In Greece, mead was thought to be a holy drink — the "drink of the gods" — and was believed to have mystical properties. In Europe, mead was used as medicine and was mixed with various herbs

and spices to combat certain ailments. Its popularity had waned in areas where grapes were readily available with which to make wine, but has since been making a comeback as an alternative to wine. At Bridgewire a group got together last year for this project and it seems to have worked out very well.

FACILITIES

Bathroom #2

Looks like the second bathroom project is underway. Pete Casillas was instrumental in the demolition phase of the project and will be in charge of the remodel now that the property managers have engaged a plumber to repair a minor leakage problem. This will make two nicely finished restrooms available at Bridgewire.

Laser Cutter

It's been awhile since we have had a full power, healthy laser. The most recent failure was the water pressure sensor. Well it's now fixed and better than ever. The tube is about 15% more powerful than the previous tube. This means faster cuts and less burning. We are now ready to quickly fix any future failures. We have a spare CO2 tube, power supply, and water sensor.

We are now considering getting an Axis Rotary attachment for the laser machine. This will enable engraving cylindrical objects like glasses, bottles, and wooden dowels. We are considering 2 options which fit into our machine. Option A costs $300, view picture to see adjustability, overall length 19inches. Option B (LightObject) costs $175, view picture to see adjustability, overall length 11.75 inches. Of course, Option C is build our own. We have many parts but would probably need to spend about $50 for additional parts and member's time to take on this project. Please let me know if you have interest in Bridgewire getting one of these Rotary Attachments and which you prefer. mailto:ericbradfordmeetup@gmail.com

Dust Air Filter

We have hung a Jet Dust Air Filter in the wood shop which should be running when ever anyone is using the woodshop. We have attached instructions to the bottom. So if you are a woodworker, please read and follow the instructions. This Air Filter in combination with the dust collector system

will help remove the micro dust which hangs in the air and can cause lung damage. There is also the added benefit that a less dusty shop means less time cleaning up. That's what you really wanted to hear.

ARTICLES STILL NEEDED!

The Newsletter

Thanks to Craig Bergland for emailing the information for the solar projects, John T for the BBBS photos, Daniel Golightly for posting his project on Facebook and Eric Bradford for his updates on our equipment. 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

BBBS upcoming June workshop

The next Big Brothers and Big Sisters Event is scheduled for June 26th. The project is to be determined. 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 Ralph Santos

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

Sweeping is Fun!

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. So we can all try to join in when there's a work session or just pick a project such as sweeping, dusting, wiping tools and tables, there's lots to do and I'm sure Eric will have plenty of suggestions. Don't wait to be asked just jump in there and help.

New members

Welcome to our newest member

Christy Shelton

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

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