BRIDGEWIRE makerspace newsletter

August 2017

BIG EVENTS

Bridgewire a hit at the Reno Mini Maker Faire

This was our biggest and best yet. Despite the day reaching 104°F, our tent was constantly abuzz with activity. Of course, it didn't hurt to have a large fan and 2 swamp coolers (thanks Lee). We prefer to think it was the amazing interactive exhibits that attracted so many people. Of course, we brought back the wildly popular Air Rockets, Solar displays and cooking (by Craig), and our display table of things made at Bridgewire. We also shared our booth with Kristine's Tin Type photograph.

However, this year we introduced many new items. We introduced 6 new exhibits which were conceived and fabricated by a hand full of dedicated Bridgewire members. The most popular hands – on exhibits were rarely unattended.

Everyone stopped in to play the **Banana Piano** (provided by Ralph). By the end of the day, so many people had tapped and pounded the keys, that the yellow keys were becoming ebony keys. Strange, didn't change the tone.

The **Wind Tube** (provided by Eric) was a hit with the youngest kids. The pure amazement of air blowing the tumbler toy they made brought many smiles to little faces.

The **Drawing Machine** (provided by Matt and Ralph) was another new exhibit that let kids draw with a X-Y gantry using a joystick as their controller. Next year we will have paper to draw on.

We need to thank the many volunteers built exhibits, manned our tent, and provided equipment and transportation. You are essential to our success. Thanks to Eric, Ralph, Matt, Craig, Kristine, Victor, Lee, Tony, James, Todd, Pamela (from BigBrothers&BigSisters), Ted, and Nick.

If you haven't heard, use AmazonSmile and Amazon makes a donation to Bridgewire 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 to 100's of dollars per year.

T-Shirts The T-shirt design below has been approved. You will be e-mailed with an opportunity to purchase our first Bridgewire T-shirt. The campaign will probably last a few weeks.

FRONT (upper right?)

BRIDGEWIRE
makerspace

BACK OF T-SHIRT

BRIDGEWIRE
makerspace

THE BOARD DECISIONS

The revised Bylaws and Articles of Incorporation have been voted on by the members and been accepted. The Bylaws (Rev4) passed with a 59% member participation, 23 YES / zero NO. The Articles (Rev3) passed with a 59% member participation, 22 YES / 1 NO.

The Waiver and Member Application have been updated for clarity and to align with the changes made to the Bridgewire Policy Manual back in April.

The new Day Guest Pass has been distributed to members in an email. Instructions on how to use is included.

The Board has approved USE FEES on some equipment which is expensive to run. This ensures that those members that are using higher cost resources are paying there fair share. Equipment affected will have a USE FEE collection box next to the equipment with current fees.

EDUCATION HAPPENINGS

Education Officer, John T. has continues to work with members to create a list of classes to be scheduled on a regular basis. ***Please see the Calendar below***. These educational opportunities are primarily free to members with some small fees to non members. Please see the individual class for details.

If you would like to add your own class or event to the calendar, please contact John to develop and schedule your class. To help, contact John at renoscuba1@gmail.com.

Reoccurring Education classes and events:

- **Metal Shop and Welding:** Hosted and taught by Lee Elliott.
- **Wood Shop:** Hosted and taught by Roman Hruska.
- **CAD Class:** Hosted and taught by Eric Bradford
- **FIX-IT Workshop:** Hosted and taught by Eric Bradford
- **Big Brothers and Big Sisters Activity Events:** Hosted by John T.

Coming Soon!!! Education classes and events:

- **Laser Cutting:** Delayed until laser is ready.

Teacher Needed!!! Education class:

- **Soldering:** We are looking for a new host/teacher to teach once a month. Eric will substitute host this month.
- **Microcontroller Presentation and Collaboration Night:** We are looking for a new host/teacher to teach once a month

BB&BS Event. These events have been on a summer hiatus. However, they will return on August 30th Wednesday 6-8pm. These events are approximately 2hrs in length and occur on weekday evenings. They will either be using the project tables area or the media room depending on the activity.

FACILITY HAPPENINGS

Facilities Officer, Lee Elliott is still the Interrum Facility Officer until we can find a permanent volunteer for the position. His duties are limited to the essentials. This means the things we want to improve will be delayed. Some maintenance items will not get done. The Board is now searching for a new Facility Officer. If you are interested, please contact Eric Bradford for details about needs and expectations for the position.

Laser Rebuild. We are in the process of refurbish this obsolete Epilog. The bed is 22" x 17". All the old components and wiring has been removed from the enclosure for cleaning or replacement. The refurbish process has been broken down to several small 2hr sub-projects, such as the fabricated control panel in the left picture. However, there is realistically about a total of 30 hrs of work to get this project completed. We are looking for several individuals to help share the load. 2 work days are posted on calendar. Please help.

CNC Wood Router. The CNC wood router is going through troubleshooting. There are a few glitches to making the router respond to speed control. Mach4 communicating with the controller properly. The machine is nearly ready to unleash. We will create training and education classes and get them on calender shortly.

NEW Software We expect to be purchasing a multiseat license of a makerspace version of V-Carve Pro. This software will allow you to make graphics and the machine code for the CNC wood router, CNC metal Plasma Cutter, and more.

Vending Machine needs help The vending machine electronics are still not functioning properly for the C5, C7, C9 drink dispensers. The machine sees a false "soldout". If you are an electrician that knows how to trace down electical faults on PCBAs we need your help. Please contact Ralph Santos to gain access to the machine to repair it. We all want a greater variety of cold drinks.

3D Printer Capability The 3D printer is now capable of printing a flexible material, (urethane TPU). Now we can print ABS, PLA, and a TPE. Here is a picture of the first flexible item we printed. It is available to touch and flex in the main room at Bridgewire.

Craigslist Sale Continues We have sold about 3/4 of the items we listed for sale and raised $832 so far. We still have several items for sale. They are located on the shelves between the Inspection Table and New Tech Center. They are marked with a price on Blue Painters Tape. We have also identified several specialized items we can sell on Ebay for a total of about $1000.

The Safety + Hygiene Project to feed us better food while raising money for safety and janitorial needs is continuing. The money raised is being collected and set aside for future janitorial services. The logistics and management of this still needs to be structured.

Remember Prices are marked on the items. We are using the honor system. Pay for your items in the Black Box under the orange cabinets.

FINAL NOTES

Welcome new members: Say hello to Jesse Worth and Lucy Gelb.

Rules Reminder (from Policy Manual): Safety Glasses. Ol' One-Eye Stumpy our Safety Glasses maskot says, "Everyone remember to wear your glasses in the shops and labs." It's not just a suggestion, IT'S THE RULE.

CLICK on Calendars to go to Bridgewire Calendar with interactive event details.

Bridgewire Calendar

August 2017

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	August 1 6 pm - 7 pm BW Board Meeting	2 7 pm - 9 pm DEFCON 775	3 6 pm - 9 pm Open Space Night	4	5 8 am - 11 am Project - Laser Cutter rebuild 9 am - 10:30 am FIX-IT Workshop
6 8 am - 11 am Project - Laser Cutter rebuild	7	8	9	10 6 pm - 9 pm Open Space Night 6:30 pm - 8:30 pm Metal Shop and Welding	11 8 pm - 10 pm Movie Night - John Wick2	12
13	14	15	16 5 pm - 8 pm Nevada Inventors Association - Monthly Meeting/Lecture	17 6 pm - 8 pm Wood Shop 6 pm - 9 pm Open Space Night	18	19 8 am - 12 pm CAD - Learning Onshape 3D CAD (2days)
20 8 am - 12 pm CAD - Learning Onshape 3D CAD (2days)	21	22 6 pm - 8 pm Soldering Class	23	24 6 pm - 9 pm Open Space Night	25 8 pm - 11 pm Game Night	26
27	28 6 pm - 7 pm Inspiration Exchange and Project Ideas	29	30 6 pm - 8 pm BB&BS Activity	31 6 pm - 9 pm Open Space Night	1	2 12 pm - 1:30 pm FIX-IT Workshop

ALL MEMBERS, If you would like to add an event. Email us at info@bridgewire.org Schedule your event with details and contact info. The new event will be scheduled by an officer or director. Your events can be any project you want to share or get help with.