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Nov/Dec 2018

BIG EVENTS

We all had a great time at Reno Mini MakerFaire. . Many Reno folks came out to see the innovative projects and interesting exhibits at the 5th annual Reno Mini MakerFaire.

Reno Mini MakerFaire is just one of many MakerFaires around the world organized by The Maker Media, publisher of Maker Magazine.The Maker Media is a leading and prestigious organization offering a global platform for connecting makers with each other, with products and services.

Bridgewire made lots of

new friends visiting the exhibit booth .The solar projects were popular as well as the rubber band gun games.We're making preparations for next year already.

Rubberband gun contest Last month was rubber band gun month at Bridgewire. We offered a contest utilizing all of our tools to create works-of-art cut, carved, and finished during this month. This month's entries ranged from very sophisticated to the simplest designs. The judging was on Sept 11th. Lance's 3D printed unit took all the marbles and the $25 prize. Full details of upcoming contest rules and competition categories will be sent in an email.

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 BUILDERS

New members are taking care of business – New member Damian and his crew are busy utilizing the many woodworking tools at Bridgewire to fill a rush order for Damian's tailoring product.

Stop in and see the action when they're using the Bridgewire power tools working on the Bridgewire work surfaces to fill their orders.

THE BOARD DECISIONS

Marketing Activity – The Board has implemented a marketing campaign focused on community outreach and targeting the student and senior communities to encourage new membership among those groups. New flyers and business cards have been printed and were utilized to our advantage at the recent MakerFaire gathering.

New Board Members: Let's welcome new Board Directors, Pete and Stephanie Casillas as Chairman and Secretary respectively, Lance Townsend, and Mark Pipes. John T. is the sole returning Board Director.

The appointed officers are Eric Bradford - President, Ralph Santos - Treasurer, John T. - Education officer, and Lance Townsend- Marketing officer.

EDUCATION HAPPENINGS

New Education Officer: John T. is investigating potential relationships with local schools and organizations. We hope to create a relationship to provide a venue for introducing youth to various industrial arts. He is trying to make connections to Charter Schools, Home School groups, and other organizations with youths. If you have contacts that could help, please relay them to John at officers@bridgewire.org

Regular Monthly Classes and equipment Safety Training:

- **1st Thurs – Welding Shop:** Safety Demo + knowledgeable user check off - by Lee Elliott.
- **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

Reoccurring 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.
- **FIX-IT Workshop:** Bring in that broken item and the instructor will guide you in fixing your item.
- **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.

Groups meeting at Bridgewire

- BigBrothers & BigSisters (activity monthly)

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.

- Code Free IoT - Raspberry Pi + Node Red (workshop)

S.T.E.A.M. Punkers, You are invited to join our inaugural workshop in a planned series of workshops for Code-Free IoT and beyond using the Raspberry Pi computer and Node Red code-free programming system. It will be held at BridgeWire https://bridgewire.org/ at 1055 Industrial Way, Unit #20, Sparks on Saturday, November 17th from 9am to noon.

Here's what we'll be covering:

1. RPi orientation
2. HATs & Shield Board survey (UPS, relay, I/O, SenseHAT, motor controllers, etc.)
3. Node Red tutorial (configuration, debugger, nodes, flows, node pallete)
4. GPIO interfacing (buttons, LEDs, beeper, relay. etc.)
5. Example apps of Node-Red + GPIO

This is the "fundamentals" workshop, and future workshops will be focusing on specific projects and technologies that can be tied into the RPi+NR combo, including the SenseHAT (environmental readouts), relay boards (home automation), motion controllers (eg-3D printing & robotics), cloud interfacing, and much much more.

Please help get the word out to experimenters, makers and especially teachers. We are asking for a $10-20 donation from every attendee to fund buying some Raspberry Pi experimenter kits which will be given to

teachers who go thru the series of workshops and then give demos and hold workshops with students themselves. This is a totally volunteer effort, so please help wherever and however you can.

So bring your donation, a note pad and your curiosity and you'll learn a lot and have a great time.

PLEASE RSVP, AS SPACE IS LIMITED !!!
Rudi Wiedemann
775-287-7756 (M)

FACILITY HAPPENINGS

Facilities Officer: Eric has taken on the Presidential duties and has stepped down from his role as

facilities officer. We are in need of a new facilities officer. Someone who understands how to maintain and improve our tools and equipment. Other areas of responsibility include improving the signage, aesthetics of the facility, and general upgrading of the equipment and tools as opportunity arises. And of course, addressing safety concerns as they become apparent. If you would like to help, please contact the Board of Directors at officers@bridgewire.org.

There have been many shop changes and improvements since our last newsletter. Here is a highlights list:

Machine shop gets Bridgeport Mill and Clausing Lathe – These are installed and getting fine

tuning before we start safety and use classes. Because these are large and potentially dangerous pieces of equipment. You must take a safety and use class before you will be granted access. Requirements are that you have taken a machining class at a trade school or junior college and can demonstrate proficiency. Classes are expected to start in January.

The Router Table is fully functional - The router on the router table is working well and with a vacuum hookup makes very little mess. The router had been problematic, so a different router has been installed. Already it has been used on several projects by many members. There is also a handheld router available in the cabinets.

The large Laser recalibrated - Recently the laser mirrors and lens were realigned to provide more consistent cutting power across the entire bed. You may have noticed that the further you got from

the origin the more power it took to cut through you materials. Now it is consistent throughout the entire bed. Yeah, you can put the exact-o knife away.

Welder Power limit increased - The Tig welder had a restriction that limited the current to the machine which limited its usefulness. This issue has been resolved and now the Welder can reach higher currents and make deeper welds.

One Bathroom has been repainted - A group of dedicated members has made a huge aesthetic improvement to one of the bathrooms. It is very blue and very clean. This bathroom has a Calvin and Hobbes theme. Next year a new team will start the second bathroom. What theme do you want to see.

Watch for the Bridgwire Secret Santa display

The next time you are in the shop check the front wall for the Bridgewire 2018 Holiday Secret Santa display. Our little Bridgewire is now seven years old and still believes in Santa Claus. Little Bridggy has made a wish list for all the shops. Feel free to grab a coupon, purchase the gift and wrap it for the Bridgewire Holiday Celebration on December 20th. The display is in progress and is scheduled for November 20th.

All Assets at Bridgewire now have an asset tag – All assets less hand and hand power tools are marked with an asset tag. If you have items which are on loan to Bridgewire, you will be contacted so we can officially lease the item or you may want to officially donate to Bridgewire. There may be some items that are unidentified, so check your list to confirm all loaned items are listed.

FINAL NOTES

Welcome new members: It has been several months since our last newsletter so this list is long. If you have a chance, say hello to new members Alex Mylavarapu, Damien Cole, Jarred Helm, John Boger, Joshua Cabitac, Joshua Hughes, Kyle Ladd, Matthew Scroggins, Pete Casillas, Roland Bliss, Stephanie Casillas, Tanya Charbury, Tony Lamarra, and William Brooks. Also welcome back, Jay Pfaffman and Ryan Bibbey.

BELOW CLICK on Calendars to go to 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 Add Event 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.