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FEBRUARY 2020

Happy February!

February is just chock full of special days. Here's a few of them.
First Week

First Friday of February: National wear red day (awareness of heart disease in women).

Second Week
February 8: Kite flying day
February 9: National stop bullying day and Read in the bathtub day
February 10: World marriage day
February 11: Make a friend day
February 11: Don't cry over spilled milk day, February 12: Lincoln's birthday, February 12: Darwin day, February 13: World radio day, February 14: Valentine's Day, Read to your child day, and National organ donor day

Third Week
Third Monday of February: Presidents day, February 1: National freedom day, February 2: Groundhog day, February 3: Four chaplains day, February 4: USO day and World cancer day, February 5: National weatherman's day, February 6: Take your child to the library day (first ents day, February 16: Do a grouch a favor day, February 17: Random acts of kindness day and Digital learning day, February 18: Battery day
February 19: Chocolate mint day, February 20: National love your pet day, February 21: International mother language day

Fourth Week
February 22: Washington's Birthday, Be humble day, and World thinking day, February 26: Tell a fairy tale day
February 26: Toad hollow day of encouragement, February 27: No brainer day, February 27: Spay day USA, February 28: (last day of February) Rare disease day, February 29: Leap day (once every four years

3D printer update

There have been difficulties with leveling the bed of the IIIP 3D printer. Chris Spitler has found that the actual problem is that the gantry is not level. The gantry is moved up and down via two lead screws driven by two stepping motors, one on each side. Apparently the two sides are sometimes getting out of sync, leaving the two sides of the gantry at different heights. The solution is to turn off the stepping motors and hand turn the screws until both ends of the gantry are at the same height. This can be done by placing some object alternately between a y axis guide rod and the x axis gantry rode above, and adjusting the vertical lead screws

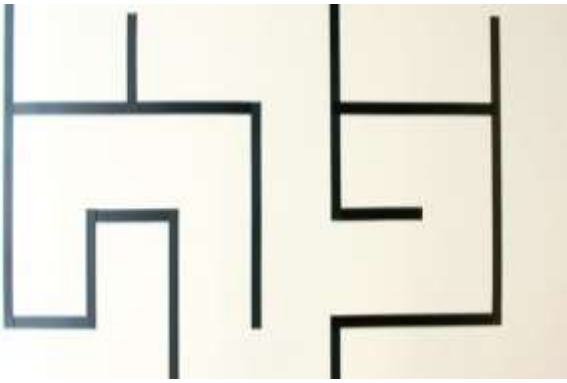
until the height is identical on both sides. A convenient object is the small LED flashlight in the toolbox. Then the bed can be leveled using the usual technique. And logistic responsibilities,

Big Brother Big Sisters

BBBS had fun on January 26th learning how to make cool Spirograph designs.

Member Meeting Feb 8th @ 2pm

Bridgewire Town Hall, Member Meeting, and Member appreciation BBQ. Bridgewire Classroom. The first member meeting of 2020 is coming up on February 8th. It's a great opportunity to mingle with the dedicated folks that make Bridgewire a success. We have lots of new members and they will all benefit from talking to the veteran members that have remained loyal contributors from the start. How should Bridgewire evolve to better serve the community and our members? Open discussion, Staff Q/A, Quarterly Members update. Bring you ideas, questions, and your appetite!



Reno Robotics Club Robot Maze Challenge

The Reno Robotics Club has a new Robot Challenge this month. The robot maze course will have 2 levels of competition, beginner and advanced.

GENERAL RULES

Robot must be no larger than 8"x 8"x no height limit

No weight limit

Maze will be based on an 8" X 8" grid and be no larger than 8 foot squared. Maze will be unknown until competition day. A similar test maze will be at the club meetings for testing.

Lego Robot Challenge February Events

The RRC is holding 3 Lego Robot Battle Challenges in February. These will be held at the Discovery Museum on February 5th, 22nd, 29th

This link will connect you to the RRC website for more information on this high tech competition. **Reno Robotics Club**

Facilities and Equipment

Kitchen Changes – For safety reasons we had to remove the old stove because it was on the same circuit as the new 5HP cabinet saw. In its place, we have a new very large toaster oven donated by Eric. This oven

can handle a 16” (large) pizza. Additionally, Matt donated a new induction cooktop. This safer cooktop requires steel cookware. Luckily we have a full set of pots and pans to meet any need. The old aluminum pots and pans have been donated to St. Vincents.

Camtasia®

New Software – Camtasia 2019 video creation and editing software is located on one of the front room computers. Eric will conduct 2 separate 2 hour one-on-one classes on how to use the software (see calendar). The only requirement is that the student must make for Bridgewire a 2-3 minute video about some creative activity or class at Bridgewire. This video will be used on our YouTube channel, Website, and Facebook locations. You may use your own project or someone else’s as the topic. This software was used to create the video on our website. If these classes are successful we may purchase 2 additional seats for Bridgewire for $160.

President’s Corner

Community Outreach – One of the main responsibilities of your President Eric (Camacho) Bradford is to build relationships with Reno/Sparks organizations to further our mission to “**Provide a community industrial workshop for the practice and education of the industrial arts in woodworking, metalworking, electronics, and other fabrication technologies**”. Eric is currently engaging several retirement communities in the hopes he will find retired individuals that would like to share and teach their knowledge. This effort is focused on obtaining the teachers our org needs.

We also want to engage groups of kids and young adults to make our organization a destination for learning the industrial arts. He needs your help connecting with key leaders in the Parks and Rec dept. of Reno/Sparks, Charter schools, and Home school groups. If you have contacts or can arrange an introduction, Eric would greatly appreciate it. Please contact him at ericbradfordmeetup@gmail.com

Operating Expense Increase – Our insurance cost doubled for this coming year. Our increase in membership numbers will cover this additional cost. After operating for 8 years with the same insurance with virtually no increase, our insurance company changed their criteria for candidates and they chose to not renew our policy. An extensive search by our agent at Heuer Insurance finally found a company willing to write us a policy. The directors and officers insurance cost stayed the same. However, our liability insurance cost more than doubled. We do gain slightly better and broader coverage. As the year progresses, we will investigate other companies in the hopes we can reduce the cost for next year

Solar SUNday in March

The first Solar SUNday Cook-off and pot luck of 2020 is scheduled for March 8
Celebrate the time change, bring munchies to share.
Noon—another Bridgewire Workshop on making and using the Ft2 solar cooker. Included materials and instruction to use it also as a solar still for making ethanol, hydrosols and essential oils.
Also a look at the Solar Cyber Cooker.
Daylong activity — making absinthe. Bring 1.75L of cheap vodka & we supply the herbs. Cost $10, 5 for herbs and 5 to the Bridgewire Solar Fund.
Activity — Modeling the solar system...
Some years ago we made a scale model with a 3” sun at the NW corner of our building. Pluto was way far on another property. This time the goal is the far end of our building. Tools provided. We’ll have more information in the March newsletter.

Nevada Inventors Assoc. meeting

The Nevada Inventors Association will host a meeting on February 5 Wednesday 12 pm - 2 pm at the UNR Innevation Center (450 Sinclair Street downtown Reno; free parking). This meeting is FREE and open to the public.

We will have a lecture by Lorne Smith of A-ONE Group Holdings entitled
"Manufacturing and Your Supply Chain"

Lorne Smith is the President of A-ONE Group Holdings, where he oversees a diverse portfolio of manufacturing partners in the automotive, medical, HVAC, and electronics industries. With offices in Hong Kong, China, and Reno Nevada, A-ONE services clients in over eighteen countries. Lorne will discuss manufacturing at any stage of your business, and the ongoing diligence necessary to maintain your supply chain relationships. Coffee and bagels will be served. For more information email.
nevada.inventors.assoc@gmail.com

ARTICLES ALWAYS NEEDED!

The Newsletter

Thanks to Eric, Ryan and David Jenson for contributing to this month's issue. 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 .

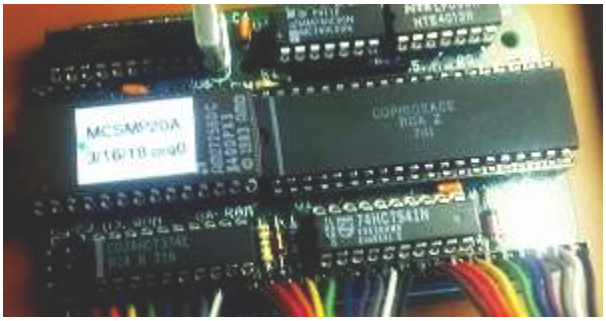
EDUCATION HAPPENINGS

New Classes for 2020

BBBS upcoming February workshop

The next Big Brothers and Big Sisters Event is scheduled for February 26th.The project is to be determined. For more information contact John at renoscuba1@gmail.com.

Microprocessor Class



Did you know that the Computer Microprocessor 'Chip' is almost 50 Years Old? To celebrate this 'golden anniversary' we are rebuilding an early bare-bones computer. The RCA CDP1802 affectionately known as COSMAC ELF. This processor or 'Chip' The 1802 was used in many spacecraft and space science programs, experiments, projects and modules such as the Galileo spacecraft, various Earth-orbiting satellites and satellites carrying amateur radio equipment. An $80.00 Lab fee gets you a kit of parts to build this marvel.

This Event is for Bridgewire Members Only. Please Text (775) 297-4909 for further information.

Lathe Class Our new Board Member Chester Stites will be organizing a Machine Shop class on Wednesday February 12th on the Bridgeport Mill and 19th on the Clausing Lathe. This is a very popular class and space is limited, so if you are interested in attending please email Chester ASAP. This Event is for Bridgewire Members Only and will cover the basic training needed to get you started.

Please email chetstites@gmail.com for further information.

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)
- Reno Robots
- 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.

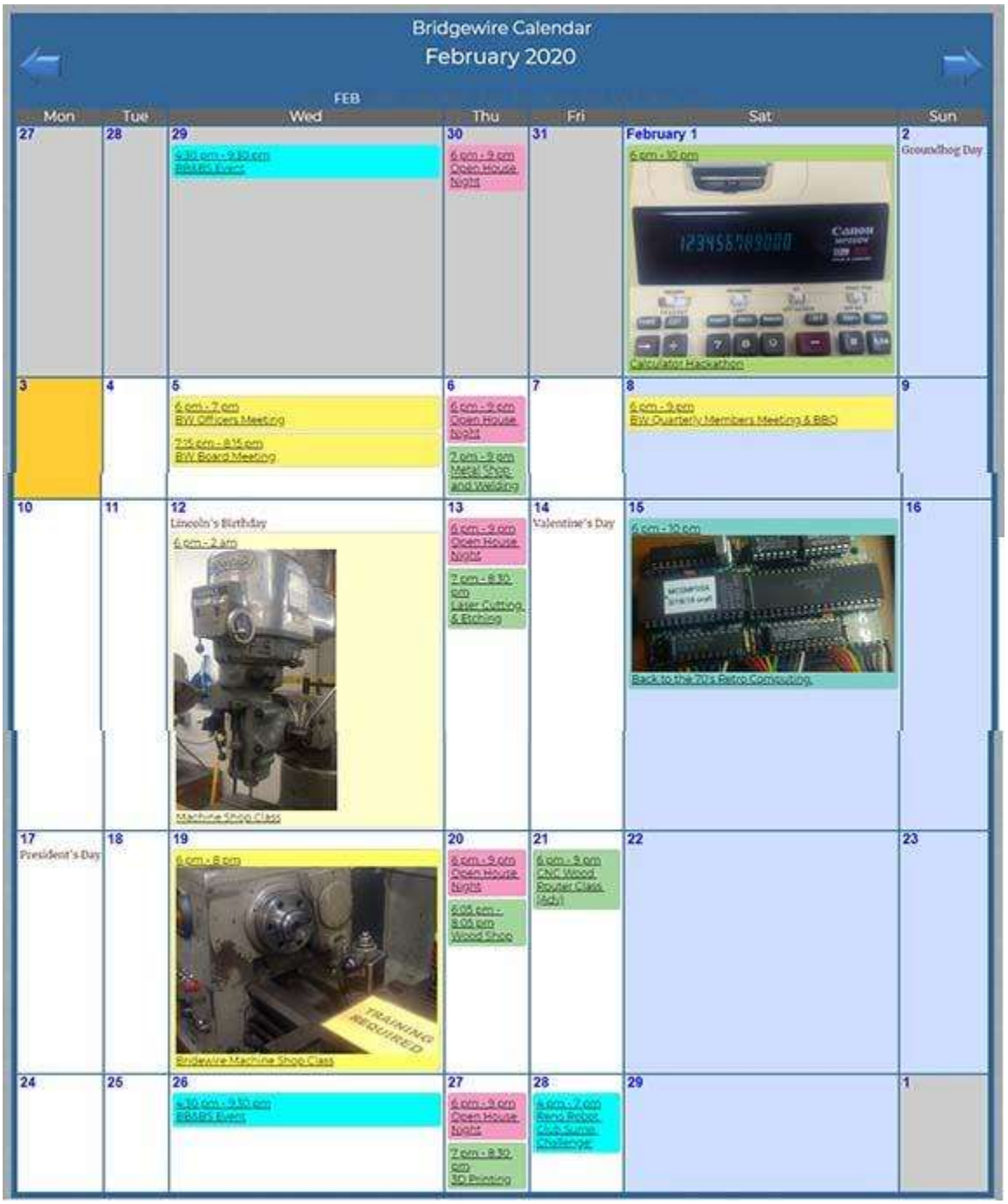
FINAL NOTES

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 Robert Harbin, Rich Eaton, Andy Breen, Ethan Breen, Daniela Olivares, Michael Schaefer, Abraham Barker, Chuck Wilson, Ashwini Bha

BRIDGEWIRE CALENDAR



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