BRIDGEWIRE MAKERSPACE

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JULY 2019

BIG BROTHERS BIG SISTERS

Stress Balls

The stress ball event was probably the most fun one we have ever done. The bigs and the littles had a blast! We used Orbeez, which are tiny pinpoint beads that when added to water become bouncy, squishy, beautiful multi-color jelly beads. We used two containers and so we ended up having 100,000 Orbeez!! We also used sand and flour and balloons. So, to make a stress ball, the kids put the medium of their choice in a plastic bottle and then blew up a balloon and placed the balloon over the lip of the bottle. Then, turned the bottle upside down and the contents of the bottle went into the balloon. Then the tricky part. They had to take the balloon off of the bottle without all of the contents of the balloon spilling out. The flour would puff out of the balloon and there was flour everywhere. The orbeez were bouncing all over the place and I have never heard so many giggles and out right laughter at one event. Because then, they had to place 2 or 3 more balloons over the one with the contents to make the contents stay in place and to actually make a stress ball. It was a real team effort between the bigs and the littles. I think each little made between 5-10 balls a piece. And, everyone went home happy!!

Stressball Slideshow

PROJECTS

Tony's Aztec Calendar

Looks like Bridgewire's CNC router is up and running again. Tony Badzioch has quite a project going. He's working on an 8' x 8' Aztec Calendar carved out of 2" sheets of styrofoam insulation..This will be something to keep our eyes on. Stay tuned for more updates on this interesting project.

LEGAL TIPS W/ KEVIN WALSH

Bridgewire has been fortunate enough to have made the acquaintance of Kevin Walsh of InSource Law here in Reno. Kevin has taken Bridgewire under his legal "wing" to help out with the endless complications facing a non-profit organization like Bridgewire. Kevin has also been so kind as to provide a very informative article for this publication with some good tips for start-ups.

Here's Kevin's contribution to this month's issue.

THE LIMITED LIABILITY UMBRELLA Sole proprietors are individuals navigating the business world without an umbrella to protect them from personal liability. A business entity formed at the Secretary of State is considered a personality separate from the individual. Think of LLCs, C Corps, S Corps, and nonprofit corporations as a shield. While the entity will be responsible for its debts, your personal assets are protected with the concept, by the corporate veil.

Not every business warrants formation of a legal entity. Some types of businesses with limited risk exposure make great sole proprietorships. All types of risk are impossible to calculate, and risk can come in many forms. Here are some things to think about when your gauging business risk when assessing whether to incorporate. Just remember this is not an exhaustive list and risk factors will vary depending on the type of business.

Do you deal with new people and/or businesses frequently? The more people you deal with, with varying interests, the greater the risk.

Is there substantial potential for large claims, or can you reasonably anticipate a cap on what you can be held liable for and frequency of claims? Don't forget about torts – things like a slip and fall at your business, a manufacturing defect, or an employee that causes an injury.

How many contracts or transactions do you enter?

What is the average dollar value? Think about verbal contracts as well as written contracts. Contractual liability is risk.

· Are your supply chains and staff solid enough to keep you delivering your goods or service and your finances in the black? Or can an upstream supply problem cause risk with respect to customers downstream?

· Are you in complete control of all the business matters that can result in a liability? Or do you trust other people to safely, timely, and effectively perform the business obligations? Nobody will care as much about your liability as you.

· Is there a great deal of industry standards and compliance that must be completed to avoid risk? Breach of standards and regulations can result in liability to both public and private entities.

· What do you have to lose? If you have assets, or plan on having assets, think about protecting them.

· Who are you out to protect, besides yourself? If you have a family or dependents, you may owe it to them to protect your assets.

If you're operating without a liability umbrella of a state formed business entity you should consider these questions and other identifiable risk factors. If you're starting a business, answer these questions before you launch. In either case this process should be part of your SWOT analysis. This is a deep dive into your business Strengths, Weaknesses, Opportunities, and Threats (SWOT).

FACILITIES

Facilities Officer

Bridgewire is still in reasonably desperate need of someone to relieve Eric of the responsibilities of maintaining the Bridgewire infrastructure. The key to keeping Bridgewire's fee schedule as it has been, is the cooperation of every member. We need one 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

Looks like the second bathroom project is STILL underway. Any members can feel free to step up and get involved in the finishing process. It's a unique opportunity to learn the plumbing process with hands on experience. Contact Pete Casillas at petecasillas@bridgewire.org to pitch in and help Bridgewire keep improving the facilities for everyone.

Recycle Time

The aluminum can, can, seems to be almost full. Anybody that is so inclined is free to take the contents to the metal recycler. Aluminum cans get about 40 cents per pound these days.

ARTICLES STILL NEEDED!

The Newsletter

Thanks to Tia Spiers for emailing her comments on the BB&BS Stressball event, John T for the BB&BS photos and Kevin Walsh for the legal advice. 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 July workshop

The next Big Brothers and Big Sisters Event is scheduled for July 31st. The project is to be determined. For more information contact John at renoscuba1@gmail.com .

Lathe and Mill Classes

Keep watching for a new classes being created by Chet Stites, who came to Bridgewire with the FIRST Robotics competition team from Hug High. The plan is to have a separate class each for the Lathe and the Mill, consisting of 2 to 3 people per class. The dates and times are 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

Clean up for the cleaning crew?

Bridgewire has a new industrial cleaning service that's 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.

BRIDGEWIRE CALENDAR

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

Bridgewire Calendar
July 2019

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3 6 pm - 7 pm BW Board Meeting	4 Independence Day 6 pm - 9 pm Open House Night 7 pm - 9 pm Metal Shop and Welding	5	6 9 am - 1 pm CAD - Learning 3D CAD (2days)	7 9 am - 1 pm CAD - Learning 3D CAD (2day
	9 7 pm - 9 pm BW Quarterly Members Meeting & BBQ	10	11 6 pm - 9 pm Open House Night 7 pm - 8:30 pm Laser Cutting & Etching	12	13	14
	16	17	18 6 pm - 9 pm Open House Night 6:05 pm - 8:05 pm Wood Shop	19	20	21
	23	24	25 6 pm - 9 pm Open House Night 7 pm - 8:30 pm 3D Printing	26	27	28 Parents' Day
	30	31 6 pm - 8 pm Lathe Class	1 6 pm - 9 pm Open House Night 7 pm - 9 pm Metal Shop and Welding	2	3	4

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