



NEWSLETTER

December 2023

"The MakerBarn is a member-driven family-friendly makerspace that exists to provide a place for our members to envision, design, and realize creative projects. We are dedicated to building a creative maker community among our membership and the community at large."

Happy Holidays!

December is a busy month at the MakerBarn. Members tend to ramp up making Christmas gifts, which is always inspiring to see as you scroll through this and every newsletter. Here are a few things to know this month:

- We won a ceramics slab roller from a local school auction. It should be on-site this weekend.
- A soldering class will feature a DIY build of an LED Christmas tree; check out the finished product now on display in the Learning Center.
- And we'll have our annual Holiday party in the Lab this Sunday (the 3rd) from 3:00 to 5:00 PM for members and your families featuring at least three DIY crafts.

If you feel like adding to our Charlie Brown-style Christmas tree in the Lab, you can hang your own handmade ornament on it. A MakerBarn theme is a good direction to go.



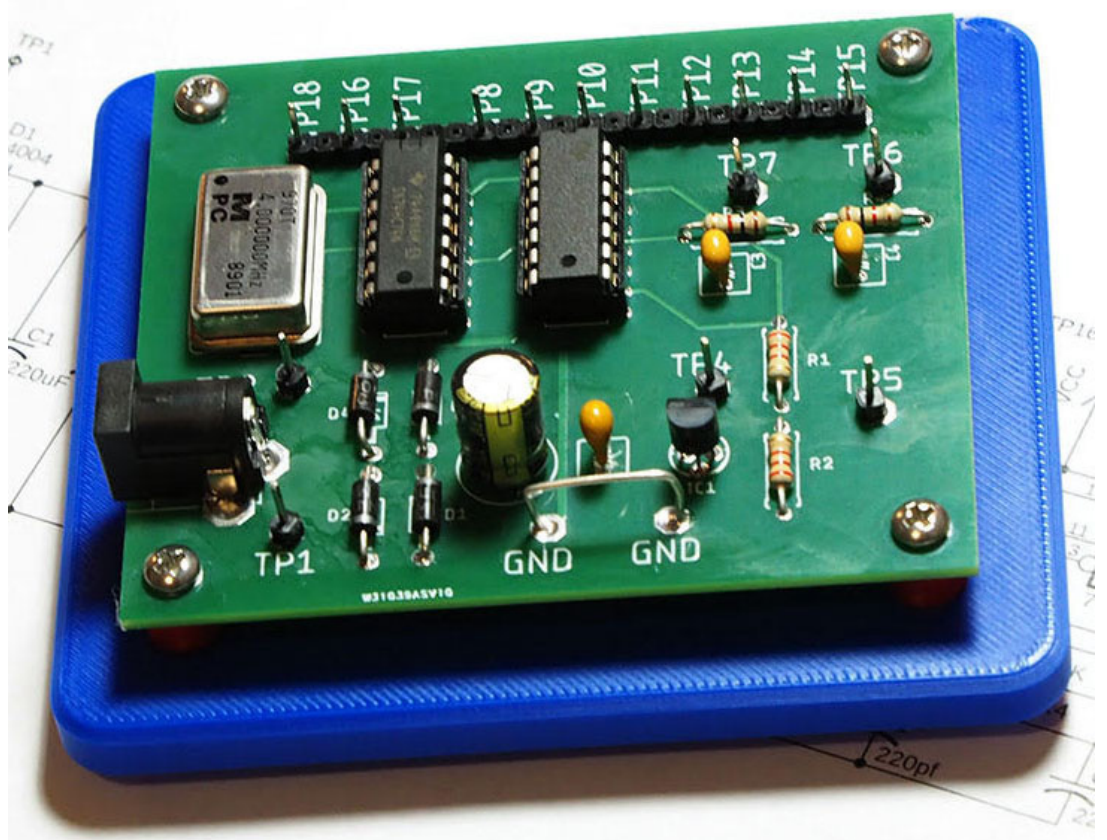
We are working on a new equipment reservation booking system. It will make it easier to reserve your equipment and see the availability. As soon as we work out the kinks, members will get an email and Slack notice with details.

We wish you all a very Merry Christmas and holiday season!

Kathy Barbieri
President, MakerBarn



Psssst, Here's a sneak peek at some trainer boards George Carlson designed and built for his upcoming oscilloscope class!



Are you Manager Material?

The MakerBarn runs on volunteers. If you have been an active member for two months or more, we would like you to consider becoming a Shop MakerBarn Manager.

MakerBarn Managers work 3-4 hour shifts during which they supervise the general operation of the Shop keeping a close eye on safety and noting any maintenance issues that arise. They also devote a fair amount of time to general cleaning of the shop floor and emptying the dust collection and trash systems. They give prospective members tours and update MACS access cards as needed for members.

Oh, and they enjoy 24/7 access to the Shop!

If the Shop manager role sounds interesting to you, contact Jim Barron via Slack. Thanks!

Paint, Glaze & Pour! Join MakerBarn Ceramics

The Maker Barn Ceramics Program is growing quickly! We have a couple classes remaining for December and will kick off the new year with a General Ceramics Orientation. This is the class required for all aspects of the ceramics program. We will have fun workshops on hand building and wheel throwing in the new year, so be sure to join us for the General Orientation on January 9th!

Class Schedule:

Date	Day	Time	Class	Eligibility
12/2/23	Saturday	9:30AM-11:00AM	Pinch Pots & Coil Pots	MB Families, at least 1 parent Completed Pour Night & Paint/Glaze, 2:1 Adult:Child ratio
12/8/23	Friday	4:00PM-6:00PM	Wheel	Completed Pour Night & Paint/Glaze Adults
1/9/24	Tuesday	7:00PM-9:00PM	General Ceramics Orientation	Adult Maker Barn Members & MB Family Members 16 years old+ with a MB Adult

If you are interested in the ceramics program at the Maker Barn, please complete this form: <https://forms.gle/uwCXZwiWCpKso2tX7>.

To sign up for classes, see this link

<https://www.signupgenius.com/go/20F044AAAAA2AA57-44723382-maker>.

Note that times and dates are subject to change.

Kiln firing dates for December:

12/7 - Bisque Fire (may be pushed back if 12/2 class projects not dry)

12/21 - Mid-Fire Glaze

If you have something critical for Christmas, please message Lisa Lane directly on Slack.

As we enter December, the likelihood of freezing temperatures increases. Clay does not work the same after freezing, so make sure you do not leave any clay on the shelves in the Kiln Room. The Maker Barn Clay Slip will be relocated to the Ceramics Center in the Lab for the winter.



Laser SIG Begins...



Our area manager of Laser Printing, Greg Radliff will host a Laser SIG (special interest group) to begin meeting at the Lab **on the 4th Thursday of the month.**

Anyone interested in talking about and sharing tips and tricks on laser cutters is welcome. Bring your projects for show and tell.

The next gathering will be December 28th at 7:00pm until the discussions end.

Fusion Class Begins Again Next Year

The Beginning Fusion class will be offered again in January next year. Stay tuned for the signup announcement!

An intermediate and advanced Fusion Special Interest Group (SIG) is also planned to begin in January if enough interest is shown.

Stay tuned...



Electronics at the Lab

We have just finished a 9-week course “Arduino for the Maker” . In this course 10 students learned how to use various sensors and actuators with the Arduino microcontroller. In the last session a product was designed using a multiplexed display, switches, and a shaft encoder.

Next, we will have a series of one session topics including soldering and assembly of a small LED Christmas Tree.

Other topics will be:

- Using the Digital Multimeter
- Electronic Components and Reading Schematics
- Introduction to Oscilloscope Operation
- Simple Logic Circuits
- How to use Stepper Motors
- Building a Power Supply
- Building an Audio Amplifier

The classes will be free, although some classes will have a materials fee. Be sure to watch Slack and the web site for class schedules.



MADE AT MAKERBARN!

David Grimmer made 2 night stands from 10 white oak stair treads that were gifted to him.

They retain the rounded front edge of the stair tread. Each table weighs a little more than 40 lbs. The MakerBarn tools used were the planer, jointer, table saw and miter saw. The finish is a Varathane Dark Walnut stain with 3 coats of water based polyurethane sprayed on.



Heather Cryer finished her project at MakerBarn this month - she used the sublimation printer and heat press to make these name tags!

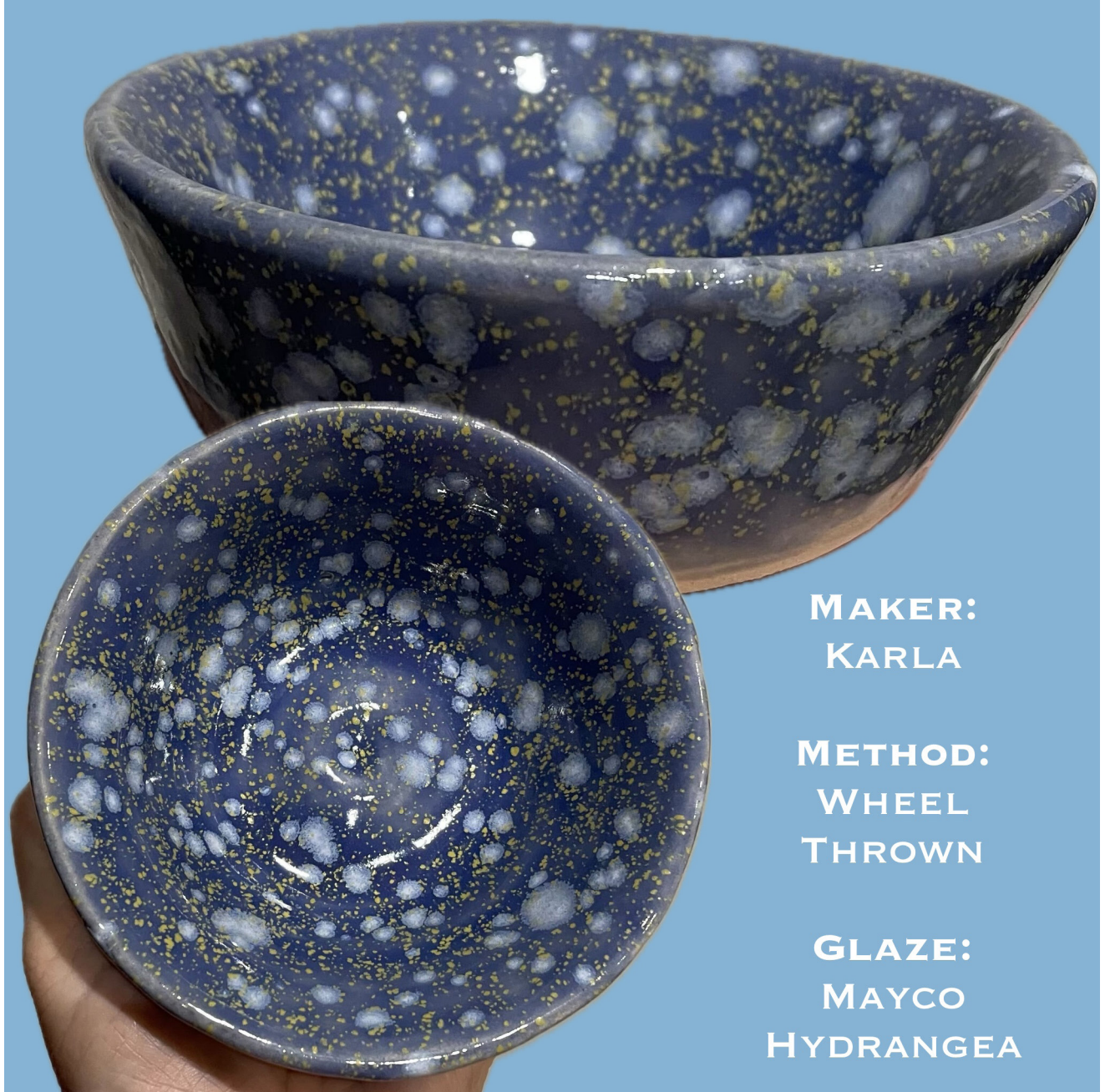


MADE AT MAKERBARN!



Jessica Stuart Buon has been having a lot of fun etching glasses on the green rotary laser. She made a set of 6 wee glencairns (small whiskey glasses) for her husband's birthday, with a different design on each so whoever is over can remember which is theirs. These are the curviest glasses she has tried so far! Her kids think the lasers are super cool, so they each picked a design too, (one picture of all 6, 2 pictures of the animals)

MADE AT MAKERBARN!



MAKER:
KARLA

METHOD:
WHEEL
THROWN

GLAZE:
MAYCO
HYDRANGEA

MADE AT MAKERBARN!



MAKER: LISA

**METHOD: HAND
BUILT (SLAB)**

**GLAZE: MATTE
BLUE GREEN
OVER CELADON**

MADE AT MAKERBARN!



John Buckley updated his addressable LED Mega Christmas Tree for a third year this month. He has used many tools at MakerBarn to design and assemble the tree which stands 14' tall and uses 1,410 programmable lights known as "pixels" with 1" spacing. He uses the software program "xLights" to develop and display patterns of light and sound known as "sequences" and an eight port Kulp controller.

Meet the Area Managers



WOODWORKING

Mark Bush is area manager of woodworking. Contact him via SLACK.



LASER PRINTING

Greg Radliff is an artist and expert at using Laser Cutter and Engravers. Greg can show you the LightBurn software we use and can check you out for use of the Laser printers in the Lab. Contact him via SLACK



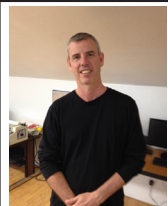
METALWORKING

Bryan Manka is area manager for metalworking which includes the metal mill and the metal lathe at the Barn. He can check you out for use of either of these machines. Contact him via SLACK.



3D PRINTING

Jody Cochran is a graphic artist with deep experience in 3D printing and other graphics tools. Jody can show you slicer and other software used with the 3D printers. Contact him via SLACK.



ELECTRONICS

Raul Garcia is area manager for electronics. More of a fixer than designer, but willing to help and learn together. See Raul for anything related to microcontrollers, electronic devices or other electronics related projects. Contact him via SLACK.



CERAMICS

Lisa Lane is area manager for ceramics. Contact her via SLACK.



WELDING

Joe Foster is area manager for welding. Contact him via SLACK.

For New Members

WELCOME to the wonderful world of making!! We know you will come to love this place as much as we do.

First and foremost, this place is about the people. We would like to encourage you to see yourself as more than just a member. We are a community. Because we don't have any employees, we rely heavily on our community to keep things running. So please join in, pitch in, and get involved. Ask lots of questions. We are a really friendly group and love to help one another. The MakerBarn is a fantastic community of makers and we are glad you are here!



Maker Barn: The Shop & The Lab
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MakerBarn Directors:

George Carlson, Director
Jeanie James, Director
Greg Radliff, Director

Executive Committee:

Kathy Barbieri - President
Jody Cochran - Secretary
Raul Garcia - Treasurer
Jim Barron - Membership
Matt Folsom - IT
Ashley Dickson - Member at Large
John Buckley - Newsletter Editor

Area Managers: (Guru or Custodian):

Woodworking - Mark Bush
Lasers - Greg Radliff
3D Printing - Jody Cochran
Metalworking - Bryan Manka
Electronics - Raul Garcia
Welding - Joe Foster
Ceramics - Lisa Lane

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