



NEWSLETTER

February 2022

"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."

Making Space for Our Maker Space

Hi! I hope all of you are doing well.

At the January Executive Board meeting, it was decided to open the membership cap by five. This would make 180 members in The MakerBarn! Although there were quite a few on the waiting list, we don't want to take in more members at a time than we can properly train. Also, we want to make sure are current membership has adequate access to our equipment. If you ever have problems getting access to equipment, be sure to let Jim Barron know. He keeps track of these things, so we don't have a situation where members have to wait to use the equipment.



What is the thing a maker space needs over all others? Well, it's space of course. We are currently talking to the building owner concerning the expansion to suite 203, which is next to the Shop. The suite is 25x50', or 1250 sqft. We would split the suite into an air-conditioned classroom/meeting room in the back, and an open warehouse area in front. The classroom would be 25x25', the open warehouse would also be 25x25' and would be used for storage and assembly/glue-up tables. Having a dedicated classroom will be a great addition to the makerspace.



A new addition to the Lab is the leather-working station in the back room. More about that later. Don't forget, Valentine's Day is coming up, a great chance to show-off your making skills to your loved ones.

George Carlson
President
Maker Barn

Improvements at The Shop

There are always things to be improved upon in a makerspace. We're all volunteers and we've got some of the best members around! Here are members, Fred Morales, CE Raum, and Mike Schoonmaker improving the miter saw (chop saw) dust collection, leveling the table, and adding a new fence with a slide rail and stopping blocks. They modified the existing fences to add T-tracks for stop blocks and measurement scales

Great job!



Master Lathe Ceremony

Member, John Webb, supplied five pieces of recently harvested hickory for five challengers to take on a chance to win a Rockler gift card in a friendly competition for Makerbarn members.

There were no restrictions on what a challenger makes from the material other than that it had to be made solely on the wood lathe and from one of the five pieces of Hickory provided.

The winner will receive the honorary title of Wood Lathe Master 2022 and a \$25 Rockler gift card!

Who's going to win the Title of Wood Lathe Master? You're invited to find out on Friday, February 11th at the Shop, 6:00PM.

Judging will be held **Friday, February 11th. Potluck Dinner event begins at 6:00PM** until bellies are full, judging complete, and award granted. The Shop will be closed for regular use during this event. All members are welcome & encouraged to attend!

MakerBarn members Tess, Colleen and David are the proud owners of newly minted objects with **dye-sublimation** art, courtesy of last month's workshop!



Is Science Your Thing?

If we are going to talk about science, first we need a little science humor.

Why can you never trust an Atom? ----- They make-up everything!

Now we can get to the point. With all the assets we have at The MakerBarn, wouldn't it be fun to put together apparatus used in some of the famous scientific experiments of the past? I don't think we should repeat Alfred Nobel's or Marie Curie's experiments, but maybe Orsted, Faraday, Rutherford, Michelson, and Tesla would be OK.

Also, some of the projects from C L Stong's Scientific American "Amateur Scientist" would be fun to do. We have people that know a great deal about woodworking, machining, optics, and electricity. We do need someone familiar with glass working, anyone want to learn? Anyone want to build an electron microscope? Some advanced high school students did. Are you smarter than a 12th grader?



I made a #mad-scientist channel on slack, if you have any ideas, post them there.

George Carlson

New Leather-Working Station!

With Valentine's Day coming up, what would be a better gift for your special one than a new leather holster. Or if you're just gunning for a new craft to master, you are in luck.

In the back room of The Lab we have setup a leather-working station with everything needed to make various leather goods. There is an entire chest full of tools and supplies. The bench has two large drawers. In the top draw you will find books and patterns for leatherworking. In the lower drawer you can store various pieces of leather. YouTube is a great place to learn the basics.

An easy place to buy leather is Amazon. I think there is also a Tandy Leather store on Jones Rd and 1960. If you want to tool the leather, be sure to buy Veg Tan Leather. This is leather that is generally light in color and stiff. It takes stamping and carving very well. The soft as cloth leather is chrome tanned. It is good for soft leather goods like pouches. Chrome tanned leather will not take stamps because it too soft. The stamping just disappears.



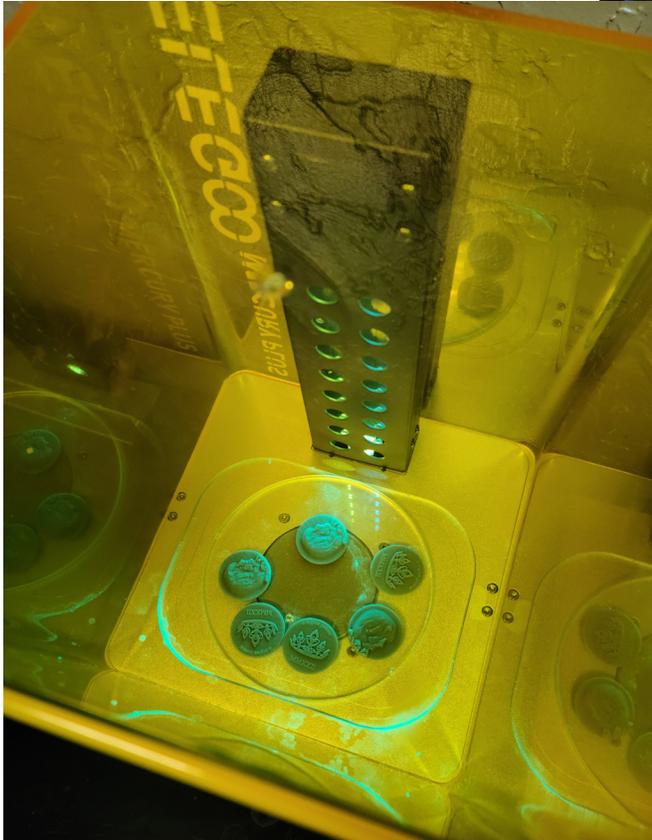
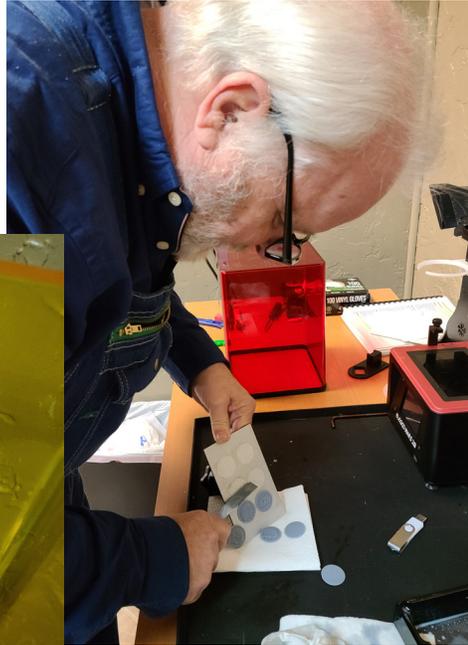
Any member is free to use the leatherworking station, but please follow the simple rules below:

1. This equipment is on loan to The MakerBarn, please take care of it.
2. Remember, leather working tools are SHARP. They are made for cutting leather, imagine what they can do to skin.
3. You are free to use whatever expendables like snaps and rivets you like. Please keep track of what you use and replace it ASAP for the next person.
4. Do not cut or stamp anything on the wooden bench top! Use the plastic cutting surfaces and granite plate provided.
5. Please do not remove any tools from this room.
6. Be sure to put all tools back where you found them and close-up the tool chest. We sometimes have curious children around. We wouldn't want them to get injured. See #2 above.
7. To learn about leather working watch some YouTube videos. There are also some books in the drawers below.

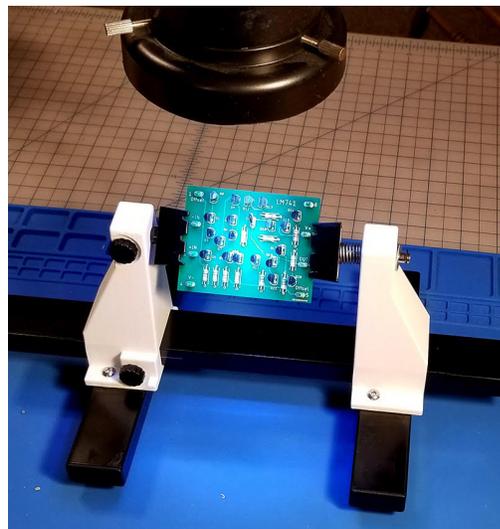


MADE AT MAKERBARN!

Greg Radliff made a two-sided coin using the Lab's new resin 3D printer. This coin will be used for casting metal coins. Notice the fine detail!



George M Carlson made a circuit board holder. It was a nice holder, except that the vertical plastic standards were poorly designed and too weak. In fact, one side was broken during shipment. He designed a much sturdier version and printed them out on a 3D printer. & now it works well.



MADE AT MAKERBARN!



Robert Wozniewicz made a three compartment pagoda style jewelry box from curly maple and wenge.



MADE AT MAKERBARN!

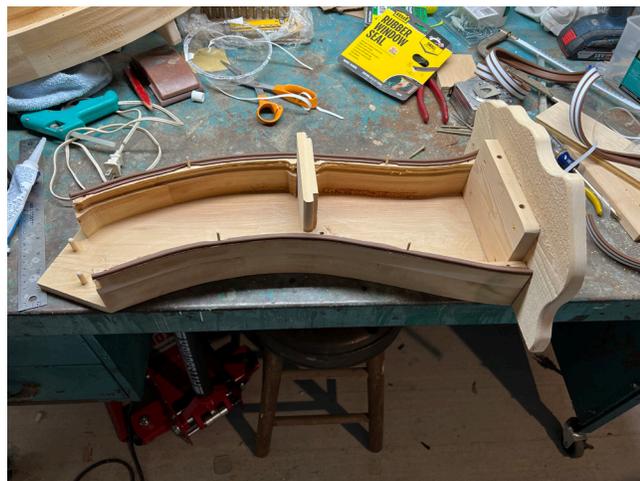
Bob Chmielewski made a cutting board out of walnut, maple and red oak.. He used table saw, drum sander and lots of clamps and glue.



George Carlson made 6 triple output power supplies for our future electronics classes. They have +5, +12, and -12 volt outputs. The front panel was done using our dye sublimation process.

MADE AT MAKERBARN!

Joe Foster made a birdhouse. The main body of the birdhouse was made from two 3" x 10" x 24" pieces of cedar, shaped and cavities created on the CNC machine. The roof was engraved and cut using the laser. The birdhouse face was engraved using the laser. The chimney and mini-bird house printed with the 3D printer.



MADE AT MAKERBARN!

David Figueroa made a mobile workbench using the mitre saw, a workbench, and some hand tools.



John Buckley made model incline rail cars from component pieces using Fusion 360 and resin printing.

MADE AT MAKERBARN!

Kevin made two Adirondack chairs. He started out with MDF templates cut on the laser, transferring the patterns to cedar to shape in the shop. Followed by bandsaw, routing table and sanding to form the shapes needed and a generous coat of penfoil rosewood oil provides the color and preservation.



MADE AT MAKERBARN!

Tess Bennett made a sublimated sequined bag and some sublimated pins. She cut the acrylic on the laser then sublimated the image on the acrylic added a solid back piece of vinyl so the colors would show better then added a pin backer.



Meet The Area Managers!

	<p><u>WOODWORKING & CNC</u></p> <p>Jim Barron has lots of experience with woodworking and CNC. He holds occasional CNC classes that demonstrate the Vectric VCarve Pro software we use. Jim can check you out on woodworking and CNC tools at the Barn. Contact him via SLACK.</p>
	<p><u>LASER PRINTING</u></p> <p>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</p>
	<p><u>3D PRINTING</u></p> <p>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.</p>
	<p><u>METALWORKING</u></p> <p>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.</p>
	<p><u>ELECTRONICS</u></p> <p>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.</p>
<p>Daniel Claybaugh</p>	<p><u>WELDING</u></p> <p>Daniel Claybaugh is area manager for welding</p>

For New Members

WELCOME to the wonderful world of making!! We know you'll 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
28030 FM 2978, Suite 204 77354
Phone: 832-663-6377



MakerBarn: The Lab
28030 FM 2978 Suite 101 77354
Phone: 832-663-6377

MakerBarn Directors:

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

Executive Committee:

Kathy Barbieri - Procurement and Acquisitions
Jody Cochran - Secretary
Raul Garcia - Member at Large
Jim Barron - Membership
Matt Folsom - IT
Daniel Cielecy - Treasurer
Doug Green - Web Site
Ashley Dickson - Member at Large
John Buckley - Newsletter Editor

Area Managers: (Guru or Custodian)

Woodworking - Jim Baron
Lasers - Greg Radliff
3D Printing - Jody Cochran
Metalworking - Bryan Manka
Electronics - Raul Garcia
Welding - Daniel Claybaugh

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*MakerBarn Lab
28030 FM 2978 Suite 101
Magnolia, TX 77354*

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