



NEWSLETTER

February 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."

New Machines Coming!

I am seeing several new faces around the Shop and Lab. A big welcome to our new members! Remember, The MakerBarn is a volunteer organization, if you would like to get involved, just let one of the managers or executive committee members know. The best thing to do is make sure you get on Slack. You can use Slack on phones or desktop computers, so if you hate typing on the phone (I do) use the PC or Mac application.

Don't forget our **MakerBarn Quarterly Pot Luck Dinner** is Sunday, February 19 from 4:30 to 6 PM. Just sign-up so we know how many people are coming and bring something to share with others or just your bring your appetite if cooking is not your maker secret power! It's a great way to meet others and share the joy of making.

We ended up with more **ceramic molds** than we know what to do with. I hate to just throw them away, but we need the space. So, if you, or someone you know, would like some molds, we have a deal for you, text Kathy at 281-788-8214.

On February 27th, a group of volunteers went to Dr. Kimbrough's shop to move the **CNC milling machine** closer to the big door. We had to move quite a bit of equipment to move the CNC from one side of the building to the other. There were eight of us, so it was not hard work, it was fun. Kathy learned how to drive a tractor with forks. Nobody got smashed while moving the 4,500 pound CNC, and it gave us some insight on how the pyramids were built.

We did bring home a neat new (to us) machine. It is a **punch** used for making charms for jewelry items. More about that below.

If anyone out there is fluent in **MasterCam**, let me know. I've been talking to the MasterCam rep, and he has a good deal for us. MasterCam is the software that most professional CNC users/programmers are using. It would be nice if we could offer some classes on the software pros use.

Have a good February and stay safe.

George



Machine of the Month - Our New Jewelry Punch

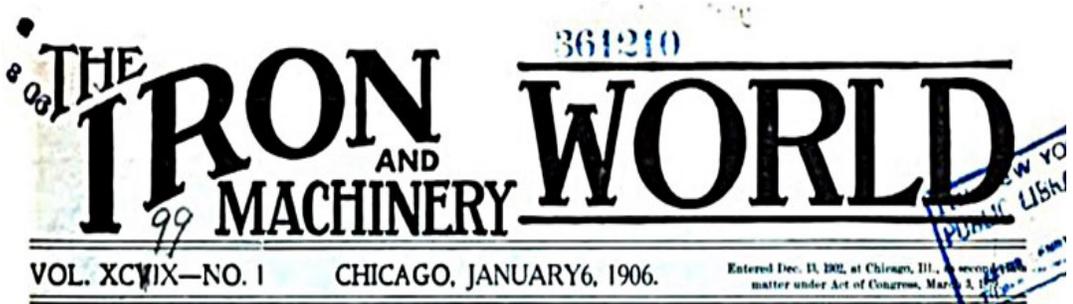
It seems that we get something new every month.

This machine was donated to us by Dr. Bill Kimbrough. This month's new machine is old, how old I don't know. My guess would be from the 1940's. This is a H.J. Ruesch Number 7 Kick Punch Press. The machine had been in use by a jewelry manufacturer in Houston for many years. It uses a punch and die pair to punch various charms from sheet metal. The metal could be Gold, Silver, Brass, or almost any sheet metal. It is rated as a 7 ton press, so it is quite powerful.

The punch and die set are carefully aligned and secured in the press. The operator places the stock material in the machine then kicks the foot pedal to stamp the object out. The part drops into the small drawer below the die. The best part is that the press came with a large number of punch and die sets. The sets need to be cleaned. They are greasy and need to have a small amount of rust removed. It may be a fun project to clean-up and restore the press and die sets. If your'e interested, let someone on the executive committee know and The MakerBarn will supply whatever material you need.



I did a little research on the H.J. Ruesch Machine Company. They were incorporated in Newark, New Jersey in 1906. The Iron and Machinery newsletter from January 6, 1906 mentions the incorporation. Their building burned down in 1912. That may be when they moved to Springfield, New Jersey. It appears they were still operating in 1976, but they were probably bought up by another company around that time.



George Carlson

Welding Course

MakerBarn Members,

We've teamed up with Ted Cox of R.G. Research and Development to offer you a **free welding course**. This is more than just safety and use training.

We need mentors! If you wish to be involved as a mentor, reply here or reach out to me on Slack. The hope is that we'll get several of you and we can then spread the time commitment out better.

Thanks,
Kathy Barbieri
The MakerBarn



Are you Manager Material?

The MakerBarn runs on volunteers and you 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!

MADE AT MAKERBARN!

George M Carlson made a new dial indicator for the Machine Metal Lathe in the Shop



Here's an important reminder to all members; the primary communications tool for the MakerBarn is our Slack Account and the channels within it. Email is *only* used for the monthly newsletter and any urgent news that must be shared with all members.

Please be sure to use Slack by joining the GENERAL channel and all other channels that are of interest to you. By doing so you are assured of staying in touch with everything going on at the barn.

Ask any manager to send a SLACK invitation text to your phone and then you can activate the SLACK app for MakerBarn.

MADE AT MAKERBARN!

Jerrel Geisler made some door corner decorations, and house warming Christmas presents for his niece's new house.



MADE AT MAKERBARN!

Heather Cryer and her husband made this sign at MakerBarn. They cut all the wood for the backer in the shop and made the front piece on the laser. The finished piece is 4 feet wide!



MADE AT MAKERBARN!

George Carlson made these holders for the tooling used with the CNC milling machine. We can use them to store the CAT40 toolholders and keep them safe. They are designed to closely fit the taper of the toolholder and hold them securely.



MakerBarn is considering creating a community garden in 2023. What do you think about this idea? How would you like to see it done? We might operate it similar to the “veggie garden” run by Interfaith of The Woodlands. Share your ideas in the new Community-Garden channel of

MakerBarn SLACK for now and if enough interest is shown we may just call a meeting & explore this further!

<https://woodlandsinterfaith.org/programs-services/veggie-village-5/>

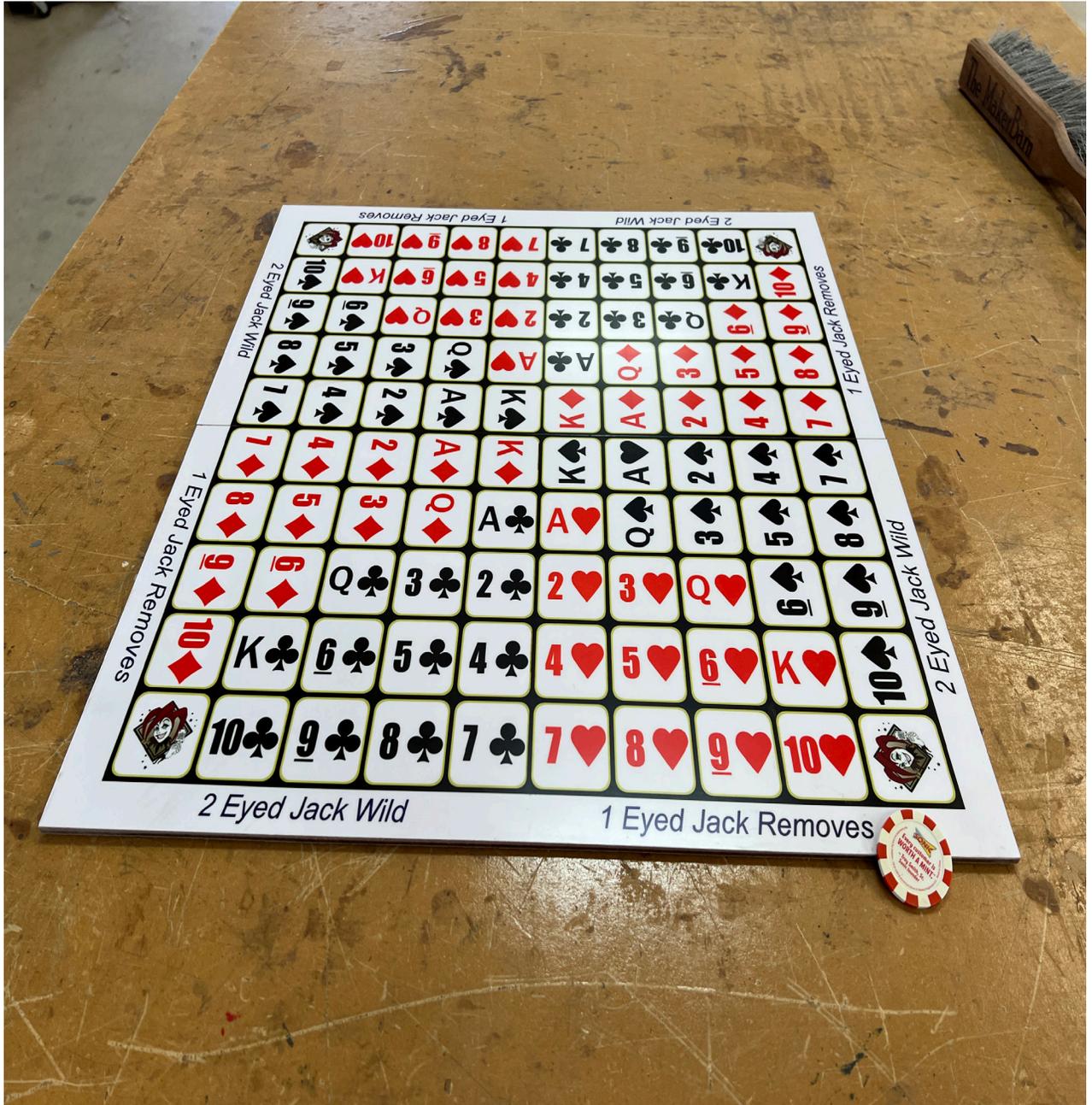
MADE AT MAKERBARN!

Joe Foster made what he calls a “low tech dishpan holder”. He used the TIG welder to weld the aluminum rods together.



MADE AT MAKERBARN!

Joe Foster made a Sequence game board. He used sublimation to transfer the board graphics (4 sections) onto two 11" x 22" chromaluxe matte white aluminum photo sheets laminated to one 22 x 22 hardboard tempered panel.



MADE AT MAKERBARN!



Hats off to Kathy Barbieri for proving our members will go anywhere and learn any new skill to bring new machines to MakerBarn!

Please remember, the MakerBarn **Winter PotLuck Dinner** is Sunday February 19, 4:30-6 PM. Please send an email to jb332699@gmail.com so we can get a count of who is coming and what you are bringing if you are cooking. The main dish (Brisket) will be provided.



Members, please remember!!

Members - PLEASE remember to clean up after using any equipment in the Shop or the Lab. Pictured here is equipment that was NOT left in acceptable condition.

Also, if you leave anything in the Shop or Lab you MUST label it with your name, date and when you will be returning to pick it up.



Items left without ID may be moved or disposed of at the manager's discretion!!

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 & The Lab

28030 FM 2978, Suites 201, 202, 203 & 204, Magnolia 77354

Phone: 832-663-6390

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

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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