

# Steel and Gold—Making Magic with Mixed Metals with Bette Barnett (Online)

August 24-28<sup>th</sup>, 2020

## Students should provide the following materials, tools and supplies:

- Gold—at least two pennyweight (Dwt) of 24k casting grains <https://www.riogrande.com/product/24k-yellow-gold-casting-grain/608700>. (Note: If you prefer NOT to alloy your own gold, you may purchase instead a 1"x2" sheet of 30g yellow gold, either 18 or 20k.)
- Torch—dual gas or acetylene/air (note small butane, propane or MAPP torches do not produce sufficient heat)
- Soldering station—soldering pads or charcoal blocks, firebricks, etc.
- Charcoal block—a new, unused charcoal block (Note: If you prefer NOT to alloy your own gold, you will not need this item.)
- Soldering tools—third hand, solder pick
- Quench bowl with water
- Neutralizing solution (baking soda and water)
- Pickle pot—steel and non-ferrous should not be mixed in the same pot
- Pickle solution—any kind of acid will work; however, Sparex No. 1 is faster for steel (you will have a small sample in your kit, enough to make two cups of solution)
- Pumice type cleaner—GoJo, Fast Orange, Barkeepers Friend or pumice powder
- Degreaser—denatured alcohol, isopropyl alcohol or any commercial degreasing agent (not acetone)
- Hand tools—the usual assortment of hand tools for working with metals such as files, pliers, hammers, etc.
- Saw frame and 2/0, 3/0 and 4/0 blades
- Bur life, beeswax or other lubricant

- Magnifier such as Optivisor if you use it
- Rubber cement
- Sharp scissors
- Patina from Sculpt Nouveau. Birchwood Liquid Patina Black (PC9, M24 or BST4 )

<https://sculptnouveau.com/collections/birchwood-patinas/products/birchwood-casey-liquid-patinas>

- Optional: mandrels and stakes (cuff mandrel, rounded stack, etc.) These are helpful for forming but not essential.
- Optional: texturing hammers, texturing burs, rolling mill and pattern plates, anything you normally use to texture metals

**If you have questions, please email the instructor, Bette Barnett at:**  
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