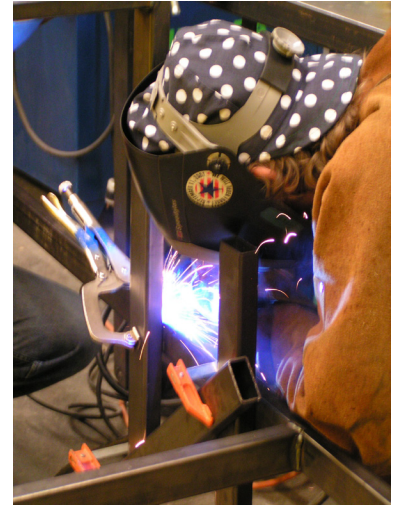
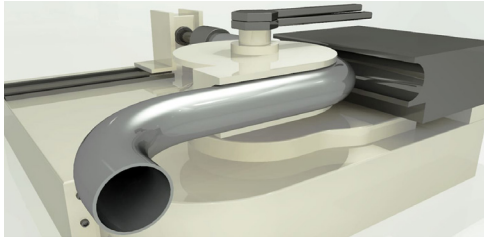


## New Adventures in Metal Assemblies



*Metal Works* (which is a classroom and a shop based course offering) will be focussed on the means and methods of working with both ferrous and non-ferrous metals (steel, aluminum, bronze) in the design and fabrication of assemblies, joints, connectors and details.

No prior metalworking or welding experience is required to participate in the class.

Using primarily analog based tools, the course will offer instruction in a variety of metal working practices with two main projects: the design and fabrication of metal joints for wood assemblies and the exploration of assemblies utilizing the bending and shaping of both metal rod and tube.

**a**

***Metal Work*** An overview and survey of the history and evolution of metal technologies, applications and fabrication technologies with a focus on the scale of details in buildings, furniture and industrial design.

**b**

***Metal Joinery*** A survey of metal joinery applications and design strategies. The course will feature the study, design and fabrication of details for metal joints for wood structural applications.

**c**

***Tube Bending Explorations*** Course projects will include testing multi-axis tube bending and assembly possibilities and applications at the scale of furniture and architectural detailing.

**d**

***Metalwork Operations*** The course will offer instruction and project activity utilizing MIG, TIG and Oxy-Acetylene welding, cutting assembling and finish metal assemblies. We will introduce and discuss the intertwined networks of material sourcing, component fabrication, craft and assemblies.

## ***Metal Works.***