

Project 2

Expressing sound
in form made out of wood
with multiple pieces
and
connections.

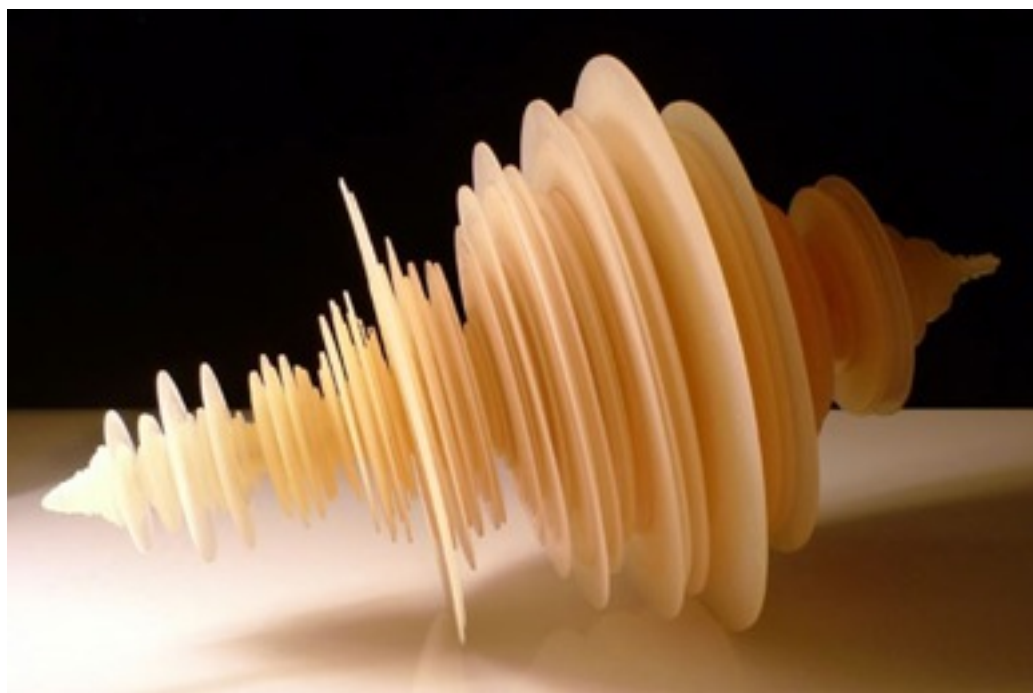
[http://www.freesound.org/people/abinadimeza/
sounds/7521/](http://www.freesound.org/people/abinadimeza/sounds/7521/)



In the second project create abstract wood form visually representing **your feelings/emotions** listening to sound/acoustic (waveform or sound bar is not visual expression of feeling or emotion, it is graphic representation of sound) .

Sound has formal qualities just as other forms such as repetition, shape , volume, balance, line, texture, color. Translate these auditory elements into 3D forms using wood. The form will have to be made out of multiple pieces /parts and be completely 3d from all sites.

Design and create connection system that best supports your form connecting all individual elements.



Woodworking joints are the best way to joint multiple pieces. You can also use other pieces of wood, such as wood dowels to create joints. The connection system has to use only wood and glue. Nails or screws are not allowed to be used! The connection has to be strong enough to support the structure. Use joints for strength.

In most wood structures, connections are one of the most important, but least understood, components. Connections provide continuity to the members and strength and stability to the system. Connections may consist entirely of wood parts but frequently involve the connection of wood by other fasteners. Of the failures observed in wood structures, most are attributed to improper connections design, construction (fabrication) or detail.

Dimensions: no smaller than 18"x18"x18 “

Materials: pine, ash, oak are affordable and available at home supplies hardware stores or 2x4 construction wood. You can also use some more exotic and more expensive options such as cherry, walnut or maple to add color and texture to your work. They can be purchased at specialty stores such as McBeaths (www.macbeath.com/)

The surface of your work has to be finished as well. How ever you cannot use color pigments or paints to help you with the color tone of your form. You can use, wood polish or transparent wood stain to enhance the quality of the wood but the wood grain has to be visible.





<http://www.yatzer.com/zimoun-the-magician-of-spatial-sound-installations>



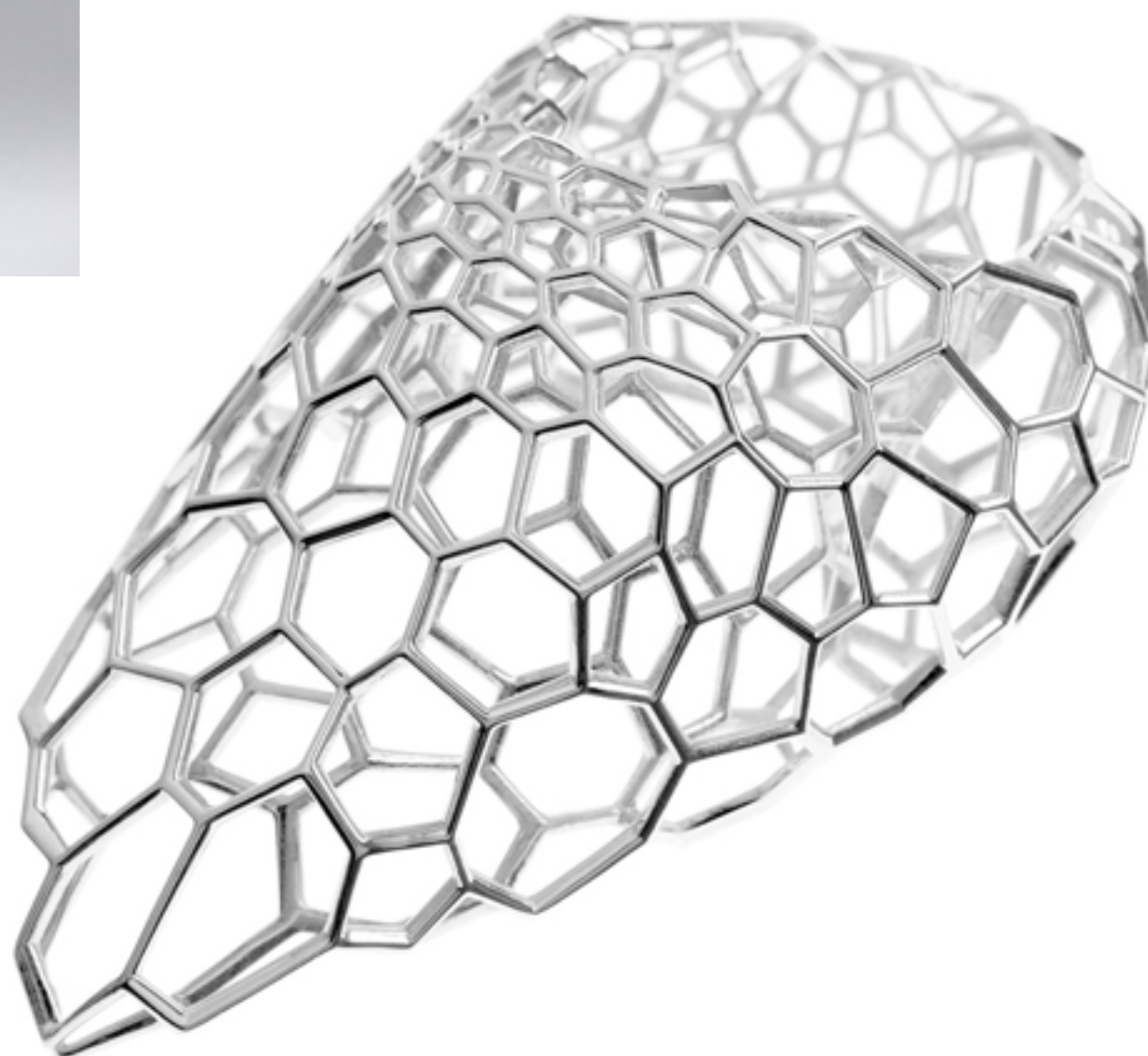
Steven Roden



<http://www.inbetweennoise.com>



Zaha Hadid





Luise Nevelson

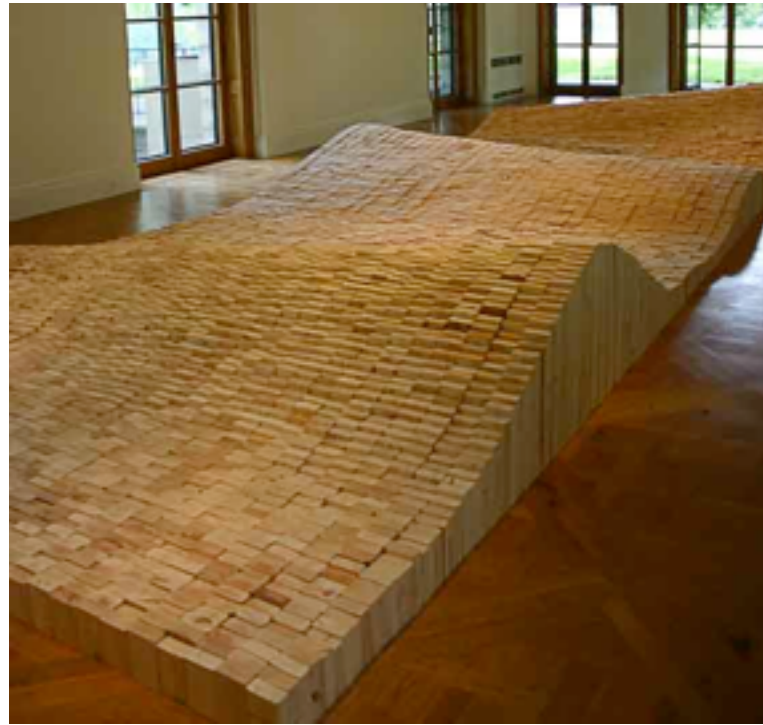


Luise Nevelson





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Maya Lin



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Assignment 4

Find interesting sound that inspires you for your wood project. Based on the sound make number of drawings showing number of views and options to demonstrate visually the qualities of the sound. Bring to class your sketchbook with drawings based on the sound you like to work with and develop these drawings into exact sketches of abstract structures you will represent through wood.

Due February 6th

Assignment 5

Practicing working in wood shop and making connections.

Using one 2x4x8 pieces of wood practice using the wood shop power tools, and learn to make wood joint connections.

1st steps: straightening and cutting your wood to size

1. Take 1 piece of 2x4x8 and cut it in 16" pieces using the compound miter saw.
2. Using the jointer join two side on each of the pieces to create 2 straight sides.
3. Using the planer straighten the other wider opposite site and 1 1/4" thickness .
4. Using the table saw rip the pieces to 3" width.
5. Finally Using the compound miter saw cut the pieces to 15" length.
6. You will end up with 6 pieces 3"x1 1/4"x 15".

continue Assignment 4

2nd steps: joining the 6 pieces together

After you have prepared the pieces of wood, **connect all of the pieces** with at least 4 different type of joints. Don't glue the pieces together, but the wood joints should fit tightly.

- Joints you can use:
- Miter butt joint,
- Rabbet joint,
- Tongue and groove
- Lap joint
- Half- Lap joint
- Cross Half Lap joint
- Box joint
- Mortise and Tenon joint
- Dowel Joint

Use power tools and hand tools tools with precision to make cuts and joints. You will need tape measure and sharp pencil. Observe all safety rules when working in the wood shop.

Due: February 13

Wood shop safety review

<http://www.art.utah.edu/woodshop/index.html>