



## **Automata: Story Telling Through Animated Wood with John Morgan**

September 3-7, 2019 (Tues.- Sat.)

### **Tools/Materials to bring:**

Safety glasses, ear protection  
Pencil or mechanical pencil with eraser  
Legal pad or pad of graph paper  
Small metal ruler (approx. 12")  
Masking tape or painter's tape  
Awl

Compass  
Small triangle  
Tri-square or smaller machinist square  
Knife for detail carving  
Scissors or craft knife for cutting patterns  
Super glue  
Wire Cutters (to cut small wire nails)

(optional)

Dial caliper, small pliers, small screw drivers, Japanese flush cut saw, small quickgrip clamps, small gouges and chisels, assorted very small synthetic bristle brushes & acrylic paint in plastic jars (white, red, blue/gray)

### **Schedule:**

- Tues.** Introduction to kinetic sculpture and automata  
Demonstration of variety of mechanisms  
Discussion of design strategies- machine driven / concept driven  
Discussion of trouble shooting process  
Tool safety demos  
Introduction of project to be built  
Preparing blanks  
Begin scroll cutting parts for model, based on patterns
- Wed.** Continue base construction  
Discussion of pin gear design  
Making pin gear jig with indexing plate  
Demo pin gear cutting and center checking  
Cutting gear blanks on scroll saw from aircraft plywood using patterns  
Drilling blanks and placing pins  
Cutting parts for model, based on a pattern
- Thurs.** Assembly of base of model with parts completed  
Testing, troubleshooting  
Scroll Cutting figure and mechanics for top  
Optional: Revise plans for sculpture if desired
- Fri.** Assembly of model with parts completed  
Making additional customized parts  
Remaking improperly functioning and flawed parts  
Complete model, test and adjust  
Demonstrate finishing/painting with acrylic paints
- Sat.** Creating dimensional flags  
Final assembly and testing  
Disassembly and application of finish  
Troubleshooting  
Q. and A., closing comments, Shop clean-up

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