



## **PARENT/TEEN HAV'N A BALL WITH SPEAKERS**

WITH

NICK ARTEMAKIS & SCOTT ZELINKA

AUGUST 1-2, 2020

### **COURSE OUTLINE, MATERIAL & TOOL LIST**

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### **ELECTRONICS KIT & SPEAKER CABINET MATERIAL**

**The material fee is \$325 and includes all material to complete one pair of speakers. Material fee is to be paid directly to Scott Zelinka. Once your registration is confirmed, contact Scott at his email address listed above to arrange the material fee payment.**

#### **Saturday:**

##### **AM**

- Welcome by Marc Adams, Introductions
- Review of our speaker project – Let's hear how they sound!
- Lecture / PowerPoint (presented throughout the weekend as time permits)
  - o Audio History, Speaker Pioneers
  - o Properties of sound and how it's represented electrically
  - o Elements of a Speaker – Parts & Construction
  - o Crossover networks
  - o Enclosure Design
    - Types, shapes, material, cabinet volume, damping, port tuning
  - o Resources – Parts Express, Madisound, Textbooks
- Front of sphere: Locate and route hole for speaker mounting
  
- Rear of sphere: Locate and drill holes for port, terminals

##### **PM**

- Finish AM agenda
- Assemble and Install Equalizing Network
- Cut & Install dampening material to inside of the sphere
- Sphere glue up.
- Everyone must have their enclosure glued up by end of the day!

## **Sunday**

### **AM**

- Sand the seem to complete the sphere
- Apply gel poly finish to the sphere
- Install rear terminals and port
- Install and connect the speaker
- Testing of the speaker
- Fabricate and Attach the speaker grill
- Fabricating the Base Ring; application of finish

### **PM**

- Continue AM agenda; complete speaker assembly, base ring
- Lecture – Speaker placement / room dynamics for optimal sound performance
- CLEAN UP BEGINS AT 3PM

### **TOOL LIST**

The following list of tools will be necessary for this workshop.

If there is something else you would like to bring, please bring it along.

- Pencils, eraser, notebook, black Sharpie marker
- Screwdriver - manual - Phillips #2
- Scissors - for cutting 1/2" foam rubber insulation
- Camera / phone – helps document the process & details for reference
- 40 W soldering iron, if you have. Otherwise, do not buy one just for this class!
- Couple of your favorite CD's

### **Safety Equipment:**

Glasses, ear plugs or ear muffs, dust mask, work apron if you like