

025:250 COMPOSITION: ELECTRONIC MEDIA I

Fall 2011

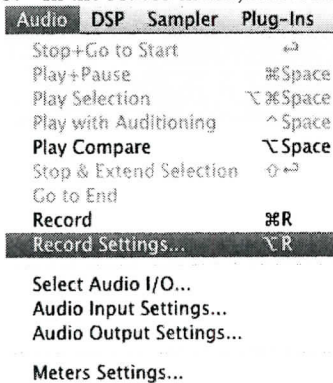
Recording with microphone, Icicle, Peak

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1. The first step in recording sounds for an electronic composition is the most important. Consider bringing to the recording session objects like the ones below:
 - a. Wooden sticks, such as popsicle sticks, wooden matches, branches, etc. These can be tapped on different surfaces and can be broken to produce a very interesting loudness curve in the attack. Time-stretching and pitch-shifting are good tools for exploring these sounds.
 - b. Rubber objects, such as balloons, kitchen objects, rubber bands, and children's and dog's toys. Wetting the fingers and rubbing over the surfaces produces interesting quasi-steady-state sounds that can be pitch-shifted. Thwinking the object by bending it back, then letting it hit a surface. Rubber bands are a very rich resource when pulled taut and plucked. Letting the air out of balloons can be a good source sound, while popping a balloon gives a resonance frequency determined by the dimensions of the room.
 - c. Metal objects are known for their generally *inharmonic* sonic character. Spinning coins have a nice envelope. Striking pots and pans produce interesting overtones. In order to capture these overtones, it may be advisable to increase the volume of the mic and hit the pan as hard as possible. The attack can be edited out, leaving only the overtones ringing.
 - d. Paper can be struck when pulled taut, torn fast and slow, crumpled, and folded.
 - e. Glass can be rubbed with wet fingers, lightly struck, and broken.
 - f. Jars of things like coins, unpopped popcorn, and marbles can be shaken repeatedly or just once. The result will be a mini sound-mass.
 - g. Suggestions for other sources will be discussed in class.
2. Recommended microphones are Earthworks, Avantone, and the Blue Baby Bottle. Additional mics are on order.
3. We will be recording using an Icicle.
 - a. The Icicle is a single channel USB audio interface.
 - b. First, plug the Icicle into one of the tower's USB ports:
 - c. Connect the XLR end of the Icicle to the microphone.
4. If the microphone being used requires phantom power (+48V), the Icicle will provide this automatically. The Icicle also features a gain control.
5. Set up Peak for recording as follows:
 - a. Launch Peak by clicking on its icon in the dock:



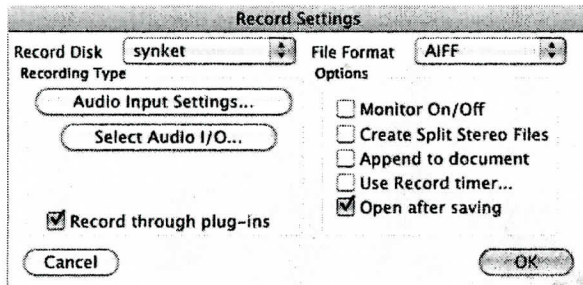
- b. In the Audio menu, select Record Settings, as shown below:



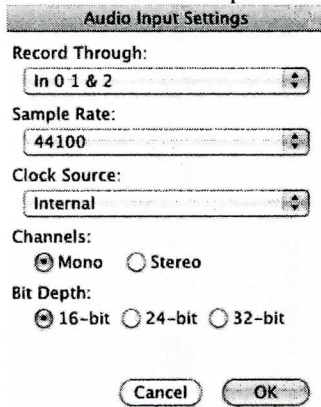
- c. The transport window may show the sound level, as shown below:



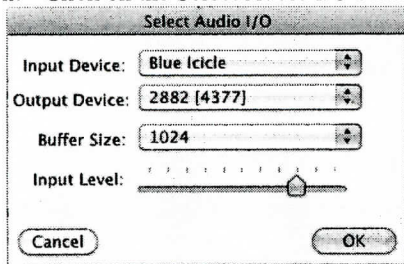
- d. The Record Settings window will appear, like the one below:



- e. Set the values to those shown above.
- f. Click on Audio Input Settings. A window like the one below will appear:



- g. Set the values to those shown above. Class discussion of these values.
- h. Click on the Select Audio I/O button. A window like the one below will appear:



- i. Set the values to those shown above. Class discussion of these values.

7. From the Audio menu, select Record, as shown below:

