**Composition: Electronic Media I**
**Recording in Protools**
**Sept. 12, 2001**

**Microphone Recording**

1) Prepare the audio connections for recording as follows:
   a) Find the **Neumann** or **Audio-Technica** mic (omni or cardioid) in the **Mic** drawer in Studio 1.
   b) Find the microphone **XLR** cable in the **Cables** drawer in Studio 1.
   c) Plug the female end of the XLR cable into the mic.
   d) Plug the male end of the XLR cable into **Mic/line 1** of the **Digi 001**.
   e) For stereo: use two mics and **Mic/Line 1** and **2**.

2) Set the **Digi 001** for recording as follows:
   a) Set the **-26dB** button to the **out** position (only loud signals require that this button be pressed in).
   b) Set the **48V** button to the **in** position (this is called phantom power, used for condensor mics like the **Neumann**).
   c) Set the **Monitor Mode** to the **out** position (this ensures that the mic signal will go to the computer).
   d) Set the **Volume** knob in the 3 o'clock position.
   e) IMPORTANT: adjust the **Digi 001** faders on the **Mackie** mixer so that feedback does not occur.
   f) For stereo: use set both **-26dB** buttons to **out** position and set both **Volume** knobs to 3 o'clock.

3) Launch **Protools** and create a New Session. Prepare for recording as follows:
   a) At the prompt, set the **Session Bit Depth** to 16-Bit.
   b) Set **Setups>Hardware** for **Sync Mode: Internal**.
   c) Set **Operations>Destructive Record** to **off** (unchecked).
   d) Set **Operations>Loop Record** to (unchecked).
   e) Set **Operations>Quick Punch** to (unchecked).
   f) Set **Display>Edit Window Shows>I/O View**.

4) Create a track and prepare it for recording as follows:
   a) Select **File>New Track**. Choose **1 Audio Track**.
   b) In the **Track** controls on the left, select **r** or **rec** or **record**, depending on track height.
   c) In the **I/O** controls to the right of the **Track** controls, note that the **input** appears as **i** or the **top** button, depending on track height.
   d) Set the **input** to "#1/1 | 888/24".
   e) For stereo: choose **2 Audio Tracks** and set input for first track to "#1/1 | 888/24" and second track to "#1/2 | 888/24"

6) Set the sound level as follows:
   a) Set the **mic** 6" to 2' from the sound source (voice, instrument, etc.).
   b) Have the sound voice (voice, instrument, etc.) play at its **maximum** level.
   c) Adjust the **mic** distance and **Digi 001 Gain** control so that the **Protools** track meter has adquate signal (green), with no clipping (yellow or red).

7) Use the **transport** to start and stop recording as follows:
   a) Select **Windows>Show Transport**.
   b) Click on the **record** button 
   c) Click on the **play** button  .
   d) Notice that a **block** soundfile progessively appears in the track's **Playlist** window.
   e) Press the **stop** button  to end the recording.
   f) Inthe **track** control on the left, deselect **r** or **rec** or **record**.
   g) Press **play** to hear the recording.

8) To export the recorded soundfile to **aiff** format, do the following:
   a) Select the soundfile in the **Region List**.
   b) In the **Region List** window, select **Audio>Export Selected as Files**.
   c) Choose:

| | |
|---|---|
| **File Format:** | **AIFF** |
| **Resolution:** | **16 bit** |
| **Channels:** | **Mono (1)** |
| **Sample Rate:** | **44100 (CD)** |
| **Conversion Quality:** | **Tweakhead (Slowest)** |
| **Destination Directory:** | your choice |

   d) For stereo, select both files in **Region List** and set **Channels** to **Stereo from.L/.R**