Music 680: Special Topics in Music - Interactivity and Improvisation (Spring 2007)
Class 12: April 25, 2007

possibility of a late start next week
project Q&A

KSE Open House postmortem

Pauline Oliveros Lear on the Road
delay as an extension that makes for rich layering and timbre of a drone
delay as virtual acoustics: changing the size of a virtual room in real time
time-varying delay as pitch-shifting; harmonizer

Kaija Saariaho Nymphae (Jardin Secret III)

Olga Neuwirth Instrumental-Inseln aus “Bählamms-Fest” II

delay as estrangement; the alienation of electronic sound
delay as ambience; facilitating stasis and sparsity - the luxury of sound

spatialization
aesthetic approaches
quadrophony and octophony
performer-centric localization
“loudspeaker orchestra”
BEAST-style diffusion
psychoacoustic cues that support spatialization
azimuth: interaural intensity, interaural timing, spectral cues from pinnae (& etc.)
zenith: spectral cues from reflections off the pinnae, shoulders, etc.
distance: direct:reverberant ratio, loss of high-frequency content, loss of low-amplitude content
velocity: doppler shift

spatialization cues in Pd
constant-power panning (cpan~)
delay basics: delwrite~, delread~, vd~
multitap delay (mtap~)
   a reminder that delay and filtering are linked! mtap~ as a comb filter....
reverberation and distance simulation
Miller’s harmonization patch

preview: May 2 - sample capture and transformation
EKG & Giuseppe Ielasi Detach
Michael Theodore Goatsong
[no reading]