The OpenSees source files need to go into the following directory for the creep analysis:

SRC/tcl/commands.cpp

SRC/tcl/OPS\_Globals.h

SRC/analysis/analysis/CreepAnalysis.cpp

SRC/analysis/analysis/CreepAnalysis.h

For the time dependent concrete material, you have a couple options. You can either just use the .dylib files I’ve provided and set you system PATH variable to find these dynamic library files (will only work with a Mac since they were created on a Mac), or you can compile the TDConcrete and TDConcreteEXP material models along with OpenSees…this will require you to add them in the following directory and you will need to adjust the makefile in the SRC/material/uniaxial/ folder to recognize that they need to be compiled.

SRC/material/uniaxial/TDConcrete.cpp

SRC/material/uniaxial/TDConcrete.h

SRC/material/uniaxial/TDConcreteEXP.cpp

SRC/material/uniaxial/TDConcreteEXP.h

Note that you will need to update all of the makefiles in the OpenSees source code to compile with the new files. You will have to modify the large makefile in the SRC folder, and the makefile in the SRC/analysis/analysis folder to include the CreepAnalysis files. Basically during the compile, a CreepAnalysis.o file will be made. You need to tell the SRC/analysis/analysis/makefile to make this .o file and you need to tell the SRC/makefile to include this .o file in your compile of OpenSees.

The example input files can be run once OpenSees has been installed on your machine by typing the following into a command prompt as noted in Appendix D of my dissertation.

OpenSees driver.tcl