2014-2015 Work Plans

Work Plan 2014-2015

IMMEDIATE, URGENT GOA LS

Software Development

- Continue PyLith development (see CIG PyLith Notes)
- Establish interaction with the Seismology Working Group on meshing issues

Community Activities

- Provide training via virtual workshops
- Continue development of a PyLith wiki to complement the cig-short email list and PyLith manual.
- Continue series of in-person workshops on biannual basis (even years).

RMEDIATE GOALS

are Development

Inversion framework for geodetic, seismic, and combined inversions.

QUESTIONS

vationally constrained and internally consistent physics for the entire seismic cycle
vationally constrained and internally consistent physics for tectonics of magmatic systems, geothermal
s, the cryosphere, and induced seismicity from fluid injection
vationally constrained modeling of crustal deformation associated with surface loads

lodeling Workshop, June 17-24, Stanford University. This onsite workshop was combined with an online
session prior to the workshop. During the workshop advanced tutorials covered !Pylith, Cubit/Trelis and
ks focused on post-seismic deformation and stress and strain in the lithosphere over the earthquake
n can be found under the conference website.

h 2.0. This release replaced the C++ Sieve implementation of finite-element data structures with

ation, which provides tighter integration with other PETSc data structures. This also reduced memory
ved memory balancing while providing speed improvements in some parts of the code. During the
lease, the source repository migrated from Subversion to Git.