

Workshop 2 on Seismic Site Amplification in Central and Eastern North America

Date: November 10, 2016

Time: 8:00 am – 11:45 pm PST

Location: 630 Sutardja Dai Hall, UC Berkeley

Expected Attendees:

Panel Members: Gail Atkinson, Dave Boore, Robert Darragh, Youssef Hashash, Grace Parker, Mark Petersen, Walt Silva, Jonathan Stewart

Panel Advisors: Yousef Bozorgnia, Christine Goulet, Mark Petersen

Observers/Contributors: Joseph Harmon, Behzad Hassani, Okan Ilhan, Grace Parker

Proposed agenda:

Time	Topic	Presenter
8:00–8:15	Agenda and meeting objectives	Stewart
8:15–9:30	Simulation-based site amplification <ul style="list-style-type: none"> - Treatment of nonlinearity & damping in PEA models. - Treatment of nonlinearity & damping in GWG simulations. Simulations for 760 to 3000 m/s factors. - Treatment of nonlinearity & damping in models from literature & simulation-based model comparisons 	Silva/Darragh, Hashash/Harmon Parker
9:30–10:00	Observation-based site amplification <ul style="list-style-type: none"> - Literature review, with emphasis on soft soils - Updates on GWG empirical model. 	Parker
10:00 –11:00	Comparisons of models and discussion <ul style="list-style-type: none"> - Comparison plots - <u>Decision required:</u> what models will form the basis of the linear site amplification (without f_0)? - <u>Decision required:</u> what models will form the basis for the nonlinear site amplification? - <u>Decision required:</u> how will we represent the 760-3000 m/s factor? 	Parker Stewart Stewart Stewart
11:00 –11:45	Application of f_0 as optional model feature <ul style="list-style-type: none"> - Literature review: does f_0 from noise match f_0 from ground motions? - Residuals of GWG model with respect to f_0. - Shape of f_0 peak from simulations vs that from data - Modeling strategies for including both f_0 and V_{S30} in the linear site amplification model - Next steps. 	Kwak Parker Hashash/Atkinson Hashash, Atkinson, Stewart Group