Transportation Systems Research Program
Spring 2011 Researcher Meeting

May 2, 2011, 10am – 5pm

UC Berkeley Richmond Field Station
Conference Room in Building 451

Goals: Assess the status of ongoing projects and discuss short, medium and long-term research plan.

Objectives:
1. Review the results of recently completed PEER projects.
2. Establish the status of ongoing PEER projects.
3. Introduce the new projects and let the new PIs connect with the current PIs.
4. Discuss research needs and formulate a TRSP research plan.

Deliverables:
1. Reports on project status in bridge structures, geotechnical, and modeling and methodology groups.
2. Suggestions for TSRP research plan.

Agenda:
10:00(sharp) Joint introductory session
10-10:10 Meeting goals and objectives (Stojadinovic)
10:10-10:20 PEER TSRP work overview (Stojadinovic)
10:20-10:55 Ground motion selection and scaling (Baker and Stewart)
10:55-11:00 Meeting organization (breakouts) and deliverables (Stojadinovic)

11:00-11:10 Break
11:10-2:45pm Breakout sessions (lunch break included)
   a. Bridge Structures with the focus on high performance columns and performance-enhancing methods and devices (lead Stojadinovic)
   b. Geotechnical Aspects, with focus on liquefaction, lateral spreading and ground improvement (lead Kramer)
   c. Methodology and Modeling aspects, addressing ground motions, incoherency, and bridge modeling in OpenSees (lead Conte)

2:45-3:00 Break
3:00-3:45 Breakout session review (Stojadinovic, Kramer, Conte)
3:45-4:45 Discussion of medium term and long term goals and objectives for the TSRP program (all)
4:45-5:00 Coordination with other PEER and Caltrans activities (all)
Breakout Sessions:
Format: project result presentation (15-20 minutes pre project), followed by a discussion of project findings, future work needed in this area, and prioritization of research objectives.

1. **Bridge structures and high-performance columns** (lead Stojadinovic)
   Participating project PIs: Restrepo, Mosalam, Mahin, Eberhardt, Roeder, Panagiotou, Ostertag, Billington, Tacroglu
   Participating from Caltrans: Mark Mahan and/or Fadel Alameddine

2. **Geotechnical aspects** (lead Kramer)
   Participating project PIs: Brandenburg, Boulanger, Elgamal, Kutter, Arduino
   Participants from Caltrans: Tom Shantz and/or Anoosh Shamsabadi

3. **Methodology and modeling** (lead Conte)
   Participating Project PIs: Stewart, Baker, Der Kiureghian, Mackie, Scott
   Participants from Caltrans: Steve Mitchell and/or Toorak Zokaie

Notes:
The next TSRP researcher meeting will be held during the PEER 2011 Annual Meeting in October 2011. Research meetings on ports, high-speed rail, and tsunami effects on transportation infrastructure will be held separately.