

SEISMIC TESTING OF ANCHORS IN UNREINFORCED MASONRY STRUCTURES

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17 August 2012

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Project Proposal

- Research the pull-out strength of adhesive anchors used in the seismic retrofit of unreinforced masonry buildings so that future designs can be improved to withstand a higher seismic capacity. Collect data from different buildings with different retrofit connections and parapet restraints to summarize them into comprehensive qualitative and quantitative information that other engineers and non-engineers may understand.

Week's Progress

- Completed our graphs
 - ▣ Summarized the arguments we came up with and supplied evidence through our graphs
 - ▣ Explained the importance of some parameter relationships we observed
- Revised some Excel spreadsheets so that they contained the equations needed to calculate the revised mortar compression results due to irregular mortar sample sizes

Road Blocks:

- After taking the time to complete some of our graphs, we found that they were not as helpful in supporting our arguments
 - ▣ The graphs simply portrayed statistics, while we had wanted them to better support relationships and help explain possible causes to the damage levels of the Christchurch buildings

Successes:

- Realized that it was still good to have the graphs that we didn't find as helpful
 - ▣ We would have not known those parameter relationships did not support our arguments unless we had seen the information organized in different types of graphs
- Gained more practice with Microsoft Excel

Goals

- Make sure our data is organized well so that both engineers and non-engineers will be able to refer to it and understand our analyses
- Finish my AIP PRIME final report before I leave New Zealand on August 26th

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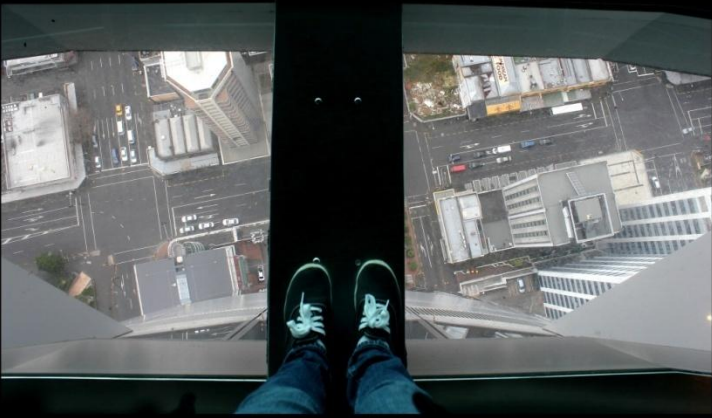
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Acknowledgements

University of Auckland, New Zealand

Dr. Liam Wotherspoon – New Zealand Mentor

Dr. Jason Ingham – New Zealand Mentor

Dmytro Dizhur

University of California, San Diego

Gabriele Wienhausen, Ph.D

Peter Arzberger, Ph.D

Dr. Lelli Van Den Einde – UCSD Mentor

Teri Simas

National Science Foundation (IOSE-0710726)

