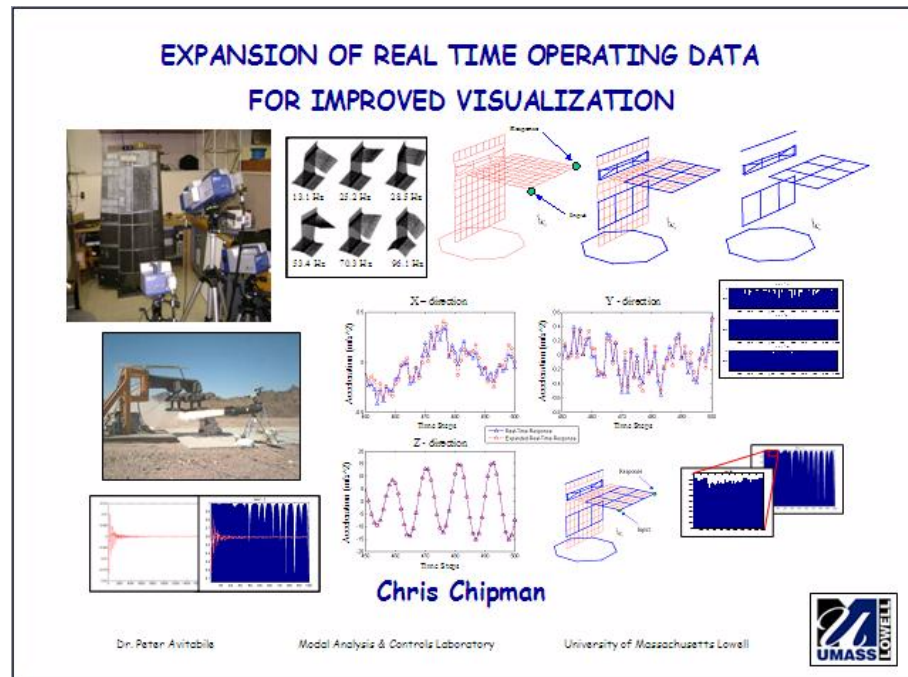




MASTER'S THESIS – CHRIS CHIPMAN

**EXPANSION OF REAL TIME OPERATING DATA
FOR IMPROVED VISUALIZATION**



Real time operating data is normally limited to relatively few data points. Unfortunately, viewing this limited set of data often times presents more confusion as to the actual system deformations. An expansion technique, using traditional experimental modal test data, is presented to augment this limited set of degrees of freedom to provide a clearer representation of the actual deformations. Comparisons of the expanded operating data with a larger set of operating data are presented to show the usefulness of the technique.