

AIMS² Research Project in Materials Engineering/MSEM, Summer 2019

Research Duration: June 3, 2019 till August 9, 2019 (~15-20 hrs per week, minimum three days/wk)

Faculty: Prof. L. Reiner or Prof. B. Bavarian

Email address: bavarian@csun.edu, or lisa.r.reiner@csun.edu

Contact No: JD1130 during weekday M-F , 818-677-7746

Goals and Objectives of the Project, Expectations and Outcomes:

Corrosion Protection of Steel pipes/ Reinforced Concrete Structures Using corrosion Inhibitors

RESEARCH OBJECTIVES

AIMS² students will use different corrosion inhibitors to protect steel alloys in highly corrosive environments. They will do literature research, look at material selection, and test corrosion inhibitors using potentiostatic, potentiodynamic and EIS impedance measurements for monitoring corrosion behavior of steel rebar in concrete. Students will be trained to use equipment, do analysis and prepare testing samples.