

ASSIGNMENT #1 (Due Jan 25)

- Review the SHM implementation of the Golden Boy (GB) in Manitoba (Section 11, Page 28 in ISIS Educational Module 5 and the related papers posted on the course website). This project represents one of the earliest and simplest SHM projects with continuous monitoring facility. Write a two page synthesis (Times Roman, 12 pt font, single spacing) of the SHM system of GB, nature of the data, monitoring method and the outcome.
- Estimate the cost of instrumentation for Golden Boy. Assume that a strain gauge costs about \$15 each, FOS \$200, Accelerometer \$300 and wind meter \$500. Add the wiring costs @10% of the instrumentation cost. The labour cost can be calculated at \$100/hr with an assumption that each sensors will need about two hours for installation, and the wiring and connections may take half a day.
- Now do a market survey to find out the current cost of the sensors and labour to re-evaluate the cost.
- Explain what additional costs might be involved in the full implementation of the SHM system.
- Submit the Assignment online using the course website