

# Applied Math Seminar

## Speaker

**Mr. Nitish Bhatt  
Gonzaga High School, Grade 12**

*"Silver Medal Winner, Canada-Wide Science Fair 2015"*

**Wednesday, October 14, 2015  
3-4pm, HH-3017**

## **COMPEL: A Novel Comprehensive Physical Environmental Influenced Landslide Model**

### **Abstract:**

Landslides continually devastate numerous regions worldwide. In previous years, the project fused together two streams of research within landslide dynamics by creating a novel comprehensive environment physical influenced landslide model (COMPEL). COMPEL was a deterministic model which was built on a novel comprehensive algorithm which modelled all major phases of the landslide mechanism. The applications of the model range from kinematic analysis of future environment influenced landslides to design of mitigation techniques. This presentation, aimed to obtain insight and guidance, will highlight the current model's function and limitations, as well as propose objectives for this year including but limited to: improving the model to conduct three dimensional analysis, conducting model validation using empirical and lab based data, and increasing the number of input variables analysed by the model.