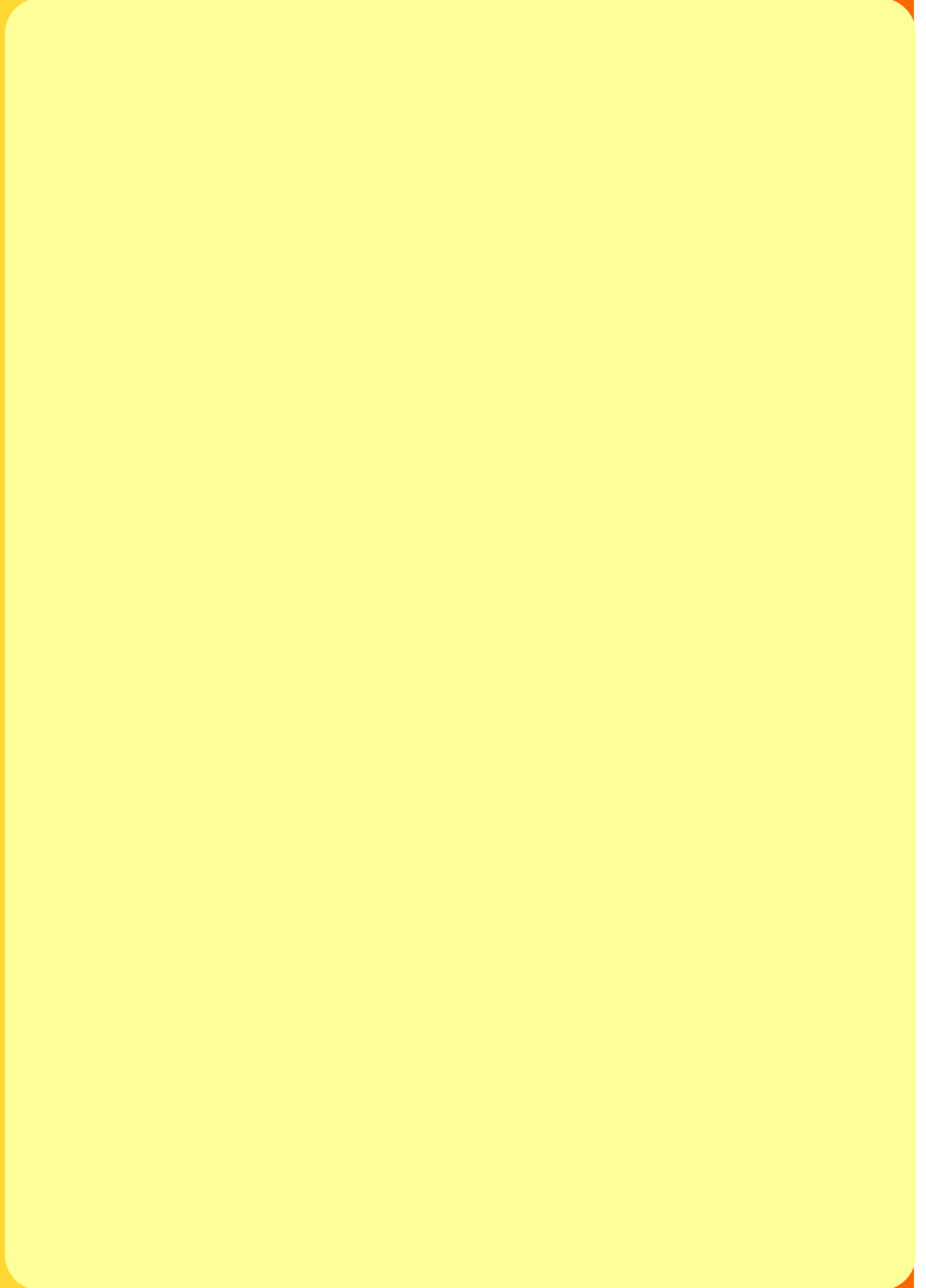


# Geosciences

DEPARTMENT OF  
PHYSICS AND  
GEOSCIENCES



**Geosciences Newsletter**

**Department of Physics and Geosciences  
Texas A&M University - Kingsville**

**GIS Based Traffic Demand Estimation**

Noe Saenz

Evacuation procedures can be the difference between survival and disaster. The more efficient procedures become will effectively increase the success rate for evacuees. One problem with evacuation is the capacity of roads to accommodate the evacuees not being sufficient. The purpose of this project is to be able to provide a method to acquire real-time traffic information for



---

**Billy Hales** is a senior-status geology major who is one semester from graduation. Mr. Hales has been a research assistant for Dr. McGehee and Dr. Yu for the past 3 years. He brings strong computer, geology, and quantitative skills to each research project he pursues. Major projects include: development of a geologic characterization of the Yuma Proving Grounds, development of a protocol to use CALINE4 CO dispersion model with Geographic Information Systems, development of a 3D model for Texas A&M – Kingsville, and development of a method to accurately characterize hydrogeologic models of fluvial aquifers.

---



---

**Orlando Gonzalez** is a senior status major who is 1.5 years from graduation. Orlando, Rebecca Roscoe, and Jacob Hundl worked on the Gold Vein Paragenesis and Wall Rock Alteration of the Victor Diatreme for the past three months. Orlando focused on transmitted light studies of the wall rock alteration.

---



---

**Rebecca Roscoe** is a senior status geology major who is one year from graduating. Rebecca Roscoe, Jacob Hundl, and Orlando Gonzalez are researching Gold Vein Paragenesis and Wall Rock Alteration of the Victor Diatreme. Rebecca focused on the ore textures and paragenesis of the ore deposit.

---



---

**Jacob Hundl** is a senior status geology major who is one year from graduating. Jacob Hundl, Rebecca Roscoe, and Orlando Gonzalez are researching Gold Vein Paragenesis and Wall Rock Alteration of the Victor Diatreme. Jacob Hundl focused on the instrumental methods using reflected and transmitted light techniques.

---



**Noe Saenz**

---

---

## **Alumnus Report**

### **Andrew Scott**

Andrew Scott graduated from Texas A&I University Kingsville (now Texas A&M University Kingsville) in 1985 with a MS degree in geology. He was the first person to receive this diploma from Texas A&I. His thesis topic is titled