

# Department of Geodetic Engineering

## **4<sup>th</sup> Geomatics Student Project Colloquium**

### *Student Project Presentations for Students*

October 14, 2013

Sessions: 8:30 AM-12:00 NN; 1:15 PM-4:00 PM

Geodetic Engineering Theatre

Enhancing student's learning experience is one of the aims of the Department of Geodetic Engineering. Through this Geomatics Student Project Colloquium, students would learn from fellow students, who are taking their undergraduate degree or doing their graduate studies. From these projects, it is hoped that the students would better appreciate and think of methods and various applications of Geomatics Engineering even before taking advanced subjects. Graduates students may also learn from the undergrads and also offer advice to them. The colloquium is also a good venue to hone their presentation skills. Alumni and friends are welcome to attend.

#### **8:00-8:30 AM Registration**

#### **PRESENTATIONS**

#### **8:30-10:00 AM: Session 1 (Chairman: Asst. Prof. Ayin M. Tamondong)**

##### **Validation of a Major Flooding Scenario in Tonle Sap River, Cambodia using MOD09Q1 Images**

*Cruz, Siev, Caparas (GmE 202)*

##### **Extracting Manning's Coefficient using DTM and DSM**

*Sola (GmE 205)*

##### **Comparative Analysis of GPS Surveying Accuracy Standards of the Philippines and Selected Countries**

*Aves, Ching, Francisco, Jose, Santiago, Templonuevo (GE 154)*

##### **Building a Water Park Complex in Marikina**

*Felix, Gonzales, Estabillo, Dimapilis (CE 49)*

##### **Change Detection of Mangrove Forest Cover in Puerto Princesa City, Palawan from 2003-2013 Using Landsat Images**

*Pagkalinawan, Ramos (GmE 202)*

**Evaluation of Pan-Sharpening Techniques for Crop Delineation**

*Cadalzo, Dargantes, Dy, Mamador, Panganiban (GE 179)*

**10:00-10:30 AM POSTER SESSION and Snack Break**

**10:30 AM-12:00 NN: Session 2 (Chairman: Asst. Prof. Florence A. Galeon)**

**Damage Potential Mapping of Mangroves in Puerto Princesa, Palawan**

*Pagkalinawan, Ramos, Remollo (GmE 203)*

**Sky View Factor Estimation from Digital Elevation Model**

*Pagkalinawan (GmE 205)*

**GPS Position Adjustment using Bluetooth RSSI**

*Carpena, Gregorio, Lisniana, Rito, Sta. Ana, Zausa (GE 154)*

**Interpolating Sparse Bathymetric Data using Python**

*Cruz (GmE 205)*

**Change Detection of Sand Cover in Tayabas Bay, Quezon by Image Differencing Using Landsat Images**

*Claridades, Domingo, Guevara, Rollan, Villanueva (GE 179)*

**GIS-Aided Mapping of Suitable Habitats for Asian Palm Civet in Masbate**

*Dela Cruz, Gatdula, Quinton (GmE 203)*

**12:00NN-1:00PM LUNCH BREAK**

**1:00-3:00 PM: Session 3 (Chairman: Asst. Prof. Darrel N. Ong)**

**Framework of a Low-Cost Arduino-based GPS Tracker**

*Aranda, Dumalang, Iglesia, Gana, Magtalas, Valencia (GE 154)*

**Regionalized Low Flow Analysis and GIS-based Assessment of Potential Small Hydropower Sites in Surface Waters in Region 9, Philippines**

*Cisneros, Patricio, Villalba (GmE 203)*

**Lag Correlation of Temperature and EVI of Cagayan River Basin**

*Felix, Furagganan, Guerrero, Lagrimas, Yu (GE 179)*

**Evaluation of Point Positioning Accuracy of GPS-Enabled Android Devices**

*Boado, Cadalzo, Dargantes, Dy, Gonzales, Mamador, Panganiban (GE 174)*

**Development Planning of an Agro-Industrial Park in Gerona, Tarlac**

*Furagannan, Yu, Guerrero, Salvacion (CE 49)*

## **Visual Comparison of Cloud Masking Algorithms in Landsat 8**

*Abad, Estabillo, Guillermo, Salvacion, Soriano (GE 179)*

**3:00-3:15 PM**

**Snack Break**

## **3:15-5:30 PM: Session 4 (Chairman: Asst. Prof. Mark Edwin A. Tupas)**

### **A GIS-based Landslide Hazard Mapping of Guihulngan City, Negros Oriental**

*Judan, Seveses (GmE 203)*

### **Assessment of Geometric Distortion in Using Different Image Rectification Methods**

*Andrade, Aragones, Cataniag, Dimapilis, Pintor (GE 179)*

### **Planning for Leisure Resort Development in Lucban, Quezon**

*Boado, Cruz, Silvino, Taguse, Santiago (CE 49)*

### **GE Sims: GNSS Application in Games**

*Carcellar, Castro, dela Cruz, Mariposa, Tan, Villaflor (GE 154)*

### **Different Triangle Configurations of GPS Networks and their Effects on the Positional Accuracy of Static GPS Surveys**

*Abad, Aragones, Cataniag, Dimapilis, Meily, Pintor (GE 174)*

### **Automatic Generation of 3D Objects from LiDAR Data using GIS**

*Dy (GE 198)*