

Department of Geodetic Engineering

6th Geomatics Student Project Colloquium

Student Project Presentations for Students

December 13, 2014

Sessions: 8:30 AM-10:00 AM; 10:15 AM-12:15 PM; 1:00-3:00 PM; 3:15-5:30 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 courses 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

COMET Routing in Ortigas Center using GIS Network Analysis

Martinez, Ramo, Tanael (GmE 203)

Cost Analysis of Jeepney and Bus Routes using ArcGIS

Carcellar, Dela Cruz, Lisniana, Manalang (GIM 175)

Multi-criteria Cost Surface Analysis of Temporary Shelters in CAMANAVA, Philippines

Manzano, Villano, Dimanarig, Aragoncillo (GmE 203)

GIS-based Road Traffic Analysis

Aves, Carpena, De Venecia, Gana, Sta. Ana (GIM 175)

Identifying Suitable Septage Treatment Plant Location in Laguna Water District Using Analytical Hierarchy Process

Apolinario, Rada, Pacalioga (GmE 203)

Visualization of Land Use Scenarios for a Coastal Tourism Environment: the Case of Boracay Island

Pagkalinawan (GmE 210)

Evaluation of Area Vulnerability based on Fire Emergency Structure's Response Range using GIS: Case study of Quezon City

Soriano, Soriano, Tio (GmE 203)

Coastal Resources Geodatabase for Bolinao, Pangasinan
Ramos, Pagkalinawan, Tagle, Francisco (GmE 220)

10:00-10:15 AM Snack Break

10:15 AM-12:15 PM: Session 2

3D Visualization and Analysis of the Forest Cover Changes in Magapit Protected Landscape, Cagayan
Acosta, Jerimae and Decilos, Joana (GmE 210)

Crime Analysis in UPD and its Relationship with Security Guards' Stations
Dumalag, Gonzales, Jose, Villaflor (GIM 175)

3D Visualization of Storm Surge brought by Typhoon Haiyan in Tacloban City
Francisco, RR. and Tagle, ME (GmE 210)

UP Lamp Post Distribution Assessment using GIS
Aranda, Magtalas, Morris, Resultay (GIM 175)

3D Visualization of Farm Development Design in Bagac, Bataan Using Virtual Terrain Project
Dela Cruz, L.G. Quinton, K. R. F. (GmE 210)

GIS Analysis of Traffic Accidents in Marikina City
Ching, Guhiting, Natino, Quides (GIM 175)

3D Visualization of Tacloban City Disaster Recovery and Proposed Redevelopment
Pelagio (GmE 210)

Visualization of vegetation analysis through quadrat sampling
Gatdula (GmE 210)

Development of Earth Centered, Earth Fixed (ECEF) Computation Program
De Venecia, Biong, Cruz, Lim, Manuel, Tuya (GE 154)

Determining the Best-Fit GGM for UP Diliman through GNSS Observations and Least Squares Adjustment
Estacio, Anasarias, Bobihis, Dela Cruz, Pulmano, Vergara, GE 154

12:00NN-1:00PM LUNCH BREAK

1:00-3:00 PM: Session 3

Determination of Correction Surfaces through curve fitting for Geoid Modeling using LSA
LSAVERGARA. ANASARIAS. BOBIHIS. ESTACIO. PARAISO. PULMANO (GE 129)

Finding Suitable Location for New Public High Schools in the City of Manila with the Aid of GIS
Barros, Canlas, Mariposa, Zausa (GIM 175)

3D Visualization of Solar Radiation in the University of the Philippines Diliman
Sola, E. F. (GmE 210)

Comparative Analysis on the Accuracy of Single Frequency, Hand-held, and Smartphone GPS Receivers
Almonte, Banatin, Batisla-on, Bernardino, Driza, Perol (GE 154)

Development of a navigable 3D model of Intramuros, Manila using a game engine

Sempio, J.N.H. (GmE 210)

Events Advertisement using WebGIS

Iglesia, Paraiso, Rito, Sunga. (GIM 175)

Comparison of Post Processed Kinematic Positioning Using One Base Station and Multiple Base Stations

Braza, Clotario, Forlales, Jupiter, Nieto (GE 154)

Visualization of Inundation Dynamics Using HEC-GEORAS Extension in ArcGIS

Azucena, Nieto, Castro, Valencia, (GIM 175)

Multi-level Parking Site Selection: Case Study of UP Diliman

Dy-Liacco, Marfori, Perol, Zaragoza (GIM 175)

3:00-3:15 PM

Snack Break

3:15-5:30 PM: Session 4 Undergraduate Research Proposal

3D Model Generation Using Photogrammetric Analysis of Paired GoPro Videos

Analysis of Multi-Modal Routing Algorithms for an Interactive Web-Based GIS: A Case Study of UP Diliman

Analysis and Comparison of Mean Sea Level Discrepancy in Manila Bay and Subic/Legazpi using Geometric, Gravimetric and Oceanographic Approach

Automated River Width Measurement of "Aol" Using Object-based Image Analysis

Application of Gravity Corrections to Orthometric Heights

Automatic Updating of Cadastral Spatial Database using GIS

Analysis of Corrective Surfaces: A Refinement Approach in Geoid Modelling

Comparative Analysis of LiDAR and MBES Bathymetric Derivatives

Close-Range Photogrammetry for 3D Modeling of Cultural Heritage Sites for Preservation, Restoration and Educational Purposes

Developing a GIS-based Model for Locating Optimum Site for Biomass Power Plant Development

Development of a Building Information System for Asset Management using Imaging Station and GIS

Development of GIS-based model for Urban Wind Resource Assessment

Developing Techniques to Improve Results of Image Classification for LULC Map Generation

Detection of Agricultural Ditches using LiDAR and Worldview Images

Determination of the Most Appropriate GIS-based Multi-Criteria Decision Analysis (MCDA) Technique for Renewable Energy Site Suitability

Identification of Possible Water Contamination Sources in Relation with Local Water Distribution

LAWIN: LiDAR Acquired data distribution through Web Infrastructure

Mangrove Forest Cover Change Detection along the Coasts of Samar and Leyte Using Multispectral Satellite Imagery

Selection of a Future Development Hub in Guiguinto, Bulacan using GIS

The Effect of Spheroid Change from Local to Geocentric on Mapping

Water quality parameters estimation using Worldview 2 images in Bolinao, Pangasinan