



PROJECT 3D  
PHILIPPINES: 3D  
VISUALIZATION AND  
ANALYSIS OF  
SURFACE AND  
SUBSURFACE DATA IN  
THE PHILIPPINES



# PROJECT 1 GEOTECHNICAL MAPPING OF METRO MANILA (GEMMS)

## DLSU team receives DOST funding for geo mapping project

JOHN GOKONGWEI JR. COLLEGE OF ENGINEERING DEAN AND FULL PROFESSOR DR. JONATHAN DUNGCA, TOGETHER WITH HIS TEAM OF GEOTECHNICAL ENGINEERS AT DLSU, RECENTLY RECEIVED FUNDING FOR THEIR PROJECT 3D PHILIPPINES: 3D VISUALIZATION AND ANALYSIS OF SURFACE AND SUBSURFACE DATA IN THE PHILIPPINES - PROJECT 1: GEOTECHNICAL MAPPING OF METRO MANILA (GEMMS)" BY THE DEPARTMENT OF SCIENCE AND TECHNOLOGY (DOST).

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The project aims to produce a digitized map containing information on the geological and geotechnical properties of Metro Manila sub-soil, showing its soil profile and classification, SPT N values, and groundwater table elevation.

The mapping and analyses of borehole data provided by partner government agencies, such as the Department of Public Works and Highways and Philippine Volcanology and Seismology (PHIVOLCS), will be done using 3D geological and geotechnical software.

A priority project of the DOST, it will receive funding worth 13.5 million pesos under the DOST-GIA funds for a period of two years.

The team, composed of Dr. Mary Ann Adajar, Dr. Irene Olivia Ubay-Anongppouth, Dr. Erica Elic Uy, Engr. Joenel Galupino, and Engr. Miller Cutor, will also be proposing policies on use of 3D software that will be adopted and implemented by government agencies. They will provide training on 3D software to field experts and research assistants, as well as technical staff and engineers of the Metro Manila DPWH district offices.

## DLSU papers garner awards in Asian ergonomic and design congress

DLSU University Fellow Dr. Rosemary Seva and Dr. Alma Maria Jennifer Gutierrez of the Industrial and Systems Engineering Department, together with their students, won best paper awards in the recently held Joint Congress Asian Council of Ergonomics and Design (ACED) & South East Asian Network of Ergonomics Societies (SEANES) last December 2 to 4.

The paper of Seva and her students, Alexis Gea Inocencio and Bianca Talidong, entitled "The Distracting Effects of Navigational and Conversation Among Transport Network Vehicle Service Drivers at Driving Scenarios," tackled the exposure of Transport Network Vehicle Service (TNVS) drivers such as Grab to driving distractions such as conversation with passengers and the use of navigational devices. Driver situational awareness (SA) and reaction time (RT) were measured in a naturalistic driving scenario.

Meanwhile, the paper of Gutierrez and her students Princess Camille Fajardo and Juliene Rois Poniente, entitled "Redesigning the Form and Label of Waste Bins to Promote Waste Sorting Behavior in De La Salle University-Manila," evaluated the waste bin set of DLSU with respect to the

waste separation performance of the users, through naturalistic observation and needs analysis.

The study shows that there was a 62.29% error in waste separation and was mainly caused by difficulties in using the waste bin, lack of knowledge in waste sorting, inconvenience when sorting, and confusion brought about by mixed waste. It was aimed to improve the waste bin set by modifying its label & form to improve waste separation.

Succeeding designs were generated through iterations derived from empirical data and user-on-site interviews from the naturalistic observation in prototype testing. Appropriate adjustments were applied until the target percent error in waste sorting was achieved.

ACED-SEANES 2020 was co-hosted by DLSU and Human Factors and Ergonomics Society of the Philippines. A total of 250 participants from 15 countries attended the virtual conference. Selected quality papers were published by Springer in the Advances in Intelligent Systems and Computing indexed in Scopus.



Seva



Gutierrez



## Service-Learning Regional Hub for Asia and Oceania launched

UNIVERSITATE, a program of the Centro Latinoamericano de Aprendizaje y Servicio Solidario (CLAYSS) seeking to generate a systemic change in Catholic higher education institutions (CHEIs), launched DLSU as the regional hub of Service-Learning for Asia and Oceania last November 20.

Mgtr. Maria Rosa Tapia, UNISERVITATE program coordinator, shared that the program focuses on institutionalizing service-learning as a tool to fulfill the mission of CHEIs to provide an integral education.

In his message, DLSU President Br. Raymundo Suplido FSC said that DLSU is one with the global alliance responding to Pope Francis' call "to form individuals who are willing to put themselves at the service of the community: from education to service to education as service."

The online launch also welcomed new member institutions: Australian Catholic University (Australia), Assam Don Bosco University (India), and Fu Jen Catholic University (Taiwan). There will be 20 institutions around the world that will share a capacity-building program to institutionalize service-learning.

Prof. Dr. Richard Brosse, Portfolio Manager of Porticus, pointed out that the diversity in the region would enrich this shared endeavor, encouraging members to acknowledge their own origins and roots as they define service-learning with spiritual dimension.

UNISERVITATE is coordinated by the DLSU Center for Social Concern and Action – Service-Learning Program, managed by CLAYSS, and supported by Porticus.

## Faculty member wins Malaysian Finance Association Best Paper Award



Almonares



A faculty member of the Financial Management Department, Ray Anthony Almonares, received the Best Paper Award at the recent Malaysian Finance Association Conference 2020, a virtual event held last November 17-19.

His study entitled, "Degree of Internationalization and Firm Value: Evidence from Japanese Banks," investigates whether investors value the internationalization strategy of a firm by using data from Japanese banks, which are among the world's largest lenders.

The paper did not find any relationship between the degree of internationalization and firm value as the strategy of foreign markets seems to be concentrated only on the three Japanese megabanks. Additionally, the findings seem to support the existing literature that

Japanese banks operate abroad mainly to provide support to the internationalization strategy of their domestic clients.

He is currently on study leave for his Ph.D. in Finance at Thammasat University and represented both Thammasat University and De La Salle University at the conference.

The conference served as a platform for academicians and practitioners to discuss and exchange ideas related to finance, and featured finance experts from all over the world as keynote speakers.





## New unit to promote inclusion, diversity, and well-being in DLSU

In its commitment to maintain a safe and nurturing environment for all its members, De La Salle University recently approved the policies on the implementation of the Safe Spaces Act (RA 11313) and the Mental Health Act (RA 11036).

In line with this, the University is establishing a unit called the Lasallian Center for Inclusion, Diversity, and Well-being under the Office of the Vice President Lasallian Mission effective AY 2021-2022.

Consistent with the Lasallian principles of inclusivity and respect for all persons, this new unit responds to the requirements of the

Safe Spaces Act and the Mental Health Act. This will help ensure a learning and working environment that values the well-being, diversity, and dignity of persons in the community.

During its transition year AY 2020-2021, the unit will propose and implement processes, programs, and activities on inclusion, gender sensitivity, diversity, and well-being in collaboration with key offices in the University.

Dr. Estesa Xaris Que Legaspi will lead the unit effective Term 2, AY 2020-2021.

## Lasallian 2020 Christmas Season celebrates hope and healing

With the lighting of the St. La Salle Hall last December 1, DLSU signaled the opening of the University's activities this Advent under the program Animo Christmas! The program commenced with a Holy Mass, followed by performances of DLSU culture and arts groups, as well as the lighting of buildings on other DLSU campuses.

Aside from Christmas lights, the iconic main DLSU building features the nativity scene with the word "HOPE" in front of the facade, in line with this year's theme "A Celebration of Hope and Healing." The theme hopes to inspire the Lasallian family during this Yuletide season amid the challenging times.

In his message to the Lasallian community, DLSU President Br. Raymundo Suplido FSC says, "As we light up our Christmas decorations, we remind ourselves that the Father sends us Emmanuel, God with us. He sends us Jesus, the light and savior of His people. Jesus is the light that conquers darkness.

This Christmas, let us again welcome Jesus, the Word into our hearts and from our hearts and homes, let us share His light, His hope, His healing with other persons, other families, and other communities. Let Christmas be truly an Animo Christmas!"





## Faculty members bag Best Paper Award in International Conference on Engineering Education

Civil Engineering (CE) faculty members Engr. Miller Cutora and Dr. Mario de Leon won for their paper, “Developing course materials for hydraulics laboratory course suited for online learning,” during the 6th International Conference on Engineering Education-Philippines held last December 4 via Zoom.

The virtual conference centered on the theme, “Achieving Quality Engineering Education Through Flexible Learning”.

Two other research papers from the John Gokongwei Jr. College of Engineering CE Department were also presented during the event: “Implementing Online Teaching and Learning for the Course on Matrix of Theory of Structures in an ‘Open’ Environment at De La Salle University” by Dr. Andres Winston Oreta and Rodolfo Mendoza, Jr. (presenter) and “Implementing a Modular Technique in Teaching Mechanics of Materials in an Online Setting” by Paolo Ian Lucero (presenter) and Dr. Mary Ann Adajar.

Cutora



de Leon



## STUDENT ACHIEVEMENTS



### Magsaysay Future Engineers/Technologists Award 2020

Two Engineering students, Jadin Zam Doctolero (BS/MS Chemical Engineering) and Aaron Jules del Rosario (BS/MS Mechanical Engineering), bagged the second and third places, respectively, in the Magsaysay Future Engineers/Technologists Award 2020.

The Award aims to recognize outstanding research outputs on engineering and technology at the collegiate level and to encourage young Filipino students to pursue a career in science.

The awarding ceremony was held on December 3 via Zoom and Facebook Live.



### Battle of the Brains by SMART EDGE ECE Review Specialist

Two Electronics and Communications Engineering (ECE) students, Grant Lewis Bulaong and Samuel Alexander Pasia, landed 1st runner-up and final round qualifier, respectively, in the Quiz Bee “Battle of the Brains” hosted by SMART EDGE ECE Review Specialist held from November 18 to 20.

The quiz bee focused on four areas of ECE: mathematics, electronics engineering, general engineering and applied sciences, and electronic systems and technologies. The competition was joined by 46 contestants from 19 different universities/colleges.

“ It is in the company of Jesus that you should labor unsparingly for the glory of God. ”

*De La Salle*

Med. 78.2 (Battersby)  
(Feast of St. Andrew, Apostle)





**THE** WORLD  
UNIVERSITY  
RANKINGS

## De La Salle University is the top Philippine university in five disciplines in the 2021 THE World University Rankings by Subject



### Business and Economics

RANKED 601+  
Lone Philippine university



### Computer Science

RANKED 601 - 800  
Top Philippine university

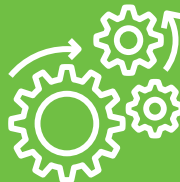


### Physical Sciences

RANKED 601 - 800  
Top Philippine university

### Social Sciences

RANKED 601+  
Only Philippine private university



### Engineering

RANKED 601 - 800  
Top Philippine university

The future begins here.®



2401 (twen'te fôr',o, wun) is a landmark number along Taft Avenue. It is the location ID of De La Salle University, home to outstanding faculty and students, and birthplace of luminaries in business, public service, education, the arts, and science. And 2401 is the name of the official newsletter of DLSU, featuring developments and stories of interest about the University.

2401 is published bi-weekly by the Office for Strategic Communications (AH-21F, intercom 144). Editorial deadline is 3 p.m. Tuesdays. Contributions should include the name, office and signature of the sender. Materials may be edited for clarity or space. 2401 may be accessed online through the URL: <http://www.dlsu.edu.ph>.

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