

DLSU invention for stroke rehab receives first international patent

DE LA SALLE UNIVERSITY RECENTLY RECEIVED ITS FIRST INTERNATIONAL PATENT FOR THE PROJECT "DEVICE FOR UPPER LIMB REHABILITATION", developed with funding from the Department of Science and Technology-Philippine Council for Health Research and Development (DOST-PCHRD) and in partnership with the University of the Philippines-Manila Philippine General Hospital.

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The patent application was filed in Singapore last year and the approval was received by the DLSU Intellectual Property Office and DLSU Technology and Innovation Office last January 11.

The project was led by Prof. Nilo Bugtai, faculty member of the Department of Manufacturing Engineering and Management of the DLSU Gokongwei College of Engineering and the founding director of the Institute of Biomedical Engineering and Health Technologies (IBEHT). His fellow faculty researchers include Dr. Jade Dungao, Dr. Rennan Baldovino, and Engr. Alexander Abad. Collaborators from the medical field include Dr. Jose Alvin Mojica, Dr. Christopher Constantino, and Dr. Jeremy Flordelis.

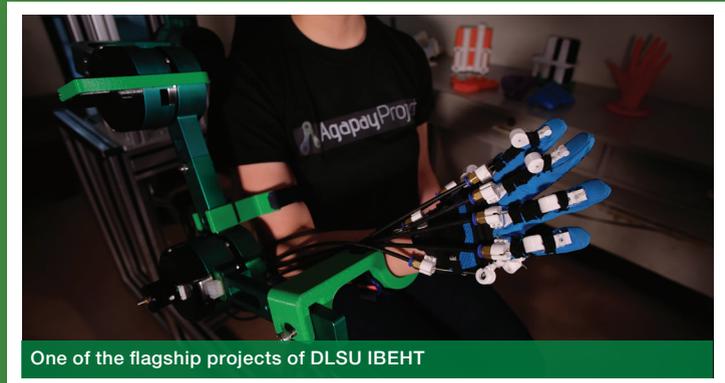
Lead researchers and associate researchers include Paul Dominick Baniqued, Aira Patrice Ong, Engr. Voltaire Dupo, Engr. Michael Manguerra, Winny Paredes, Maria Annyssa Perez, Carlos Matthew Cases, Eldrich Bong Velencerina, and Hanz Emmanuel Timbre. In the application, the project team pointed out that the invention relates to an exoskeleton for human upper limb rehabilitation and was developed in response to the current situation in the country.

“Stroke and injury remain the two leading causes of disability in the Philippines. Recent technological advances in biomedical engineering have paved the way for the development of exoskeletons for rehabilitation. However, affordable devices that can effectively increase upper extremity motor recovery are still not available in developing regions where access to modern medical facilities is limited,” the team noted in their patent application.

One of the flagship projects of DLSU IBEHT, the invention is part of the DOST-PCHRD-funded AGAPAY Project, which aims to develop robotic exoskeletons for rehabilitation.

The AGAPAY Exoskeleton is a wearable robot that is biomimetically designed to account for all the movements of the upper limbs. This device shall provide post-stroke and injured patients with a cost-efficient and high-performance rehabilitation system. The robotic exoskeleton provides a safe, comfortable and user-friendly experience during therapy exercises. The latest prototype of the device is actuated using high power DC motors attached to an adjustable and lightweight frame.

A real-time biofeedback system is integrated to record neuromuscular activity using surface electromyography (sEMG). This device can perform active and passive motion exercises through gamification using integrated haptics and a graphical user interface.



One of the flagship projects of DLSU IBEHT



La Salle and St. Scholastica's College to offer joint academic, research programs

DE LA SALLE UNIVERSITY AND ST. SCHOLASTICA'S COLLEGE MANILA WILL SOON OFFER JOINT COURSES AND WILL DEVELOP DUAL DEGREES, CERTIFICATE COURSES, AND MINOR PROGRAMS.

In a memorandum of agreement signing ceremony held on January 24 in DLSU, the institutions agreed to foster mutual opportunities to harness academics, research, and the overall student life.

The partnership will also include interactions of faculty members and researchers, exchange of research materials and publications, active participation in seminars, lectures and academic meetings, and other academic undertakings.

SSC was represented by President Sr. M. Christine Pinto, OSB, Vice President for Academic Affairs Virginia Fornias PhD, School of Arts and Sciences Dean Faye Rafael, and Marketing Officer Kevin Hernandez.

Representing DLSU were President Br. Bernard Oca FSC, Provost Dr. Robert Roleda, Associate Provost Dr. Elenita Garcia, Br. Andrew Gonzalez FSC College of Education (BAG CED) Dean Dr. John Addy Garcia, BAG CED Associate Dean Dr. Rochelle Lucas, College of Liberal Arts Dean Dr. Rhoderick Nuncio, and University Registrar Dr. Nelson Marcos.

In his message, Br. Bernie said he looks forward to “more future endeavors and a more robust cooperation between DLSU and SSC in the next five years.”

Sr. M. Christine, for her part, said that the agreement will lead to a deeper engagement and interaction between the two educational institutions. “We see this partnership as a blessing and a way to further our mission.”

Among the pilot programs that will be developed by DLSU and SSC are joint courses in education and women studies.

DESIGNING THE FUTURE

DLSU STUDENT EXPERIENCE



A 10-week series of collaborative workshops on High-Level Student Lifecycle Process and Data Requirements was recently concluded for the BITUIN Program. The workshops covered **28 processes related to the Integrated School, Undergraduate and Graduate Studies Segments of the University**. A key outcome of the workshops was the reduction of the processes from **28 to 18, resulting in the harmonization of processes across segments, and the decommissioning of some non-value adding processes**. As replacement for decommissioned processes, modern or digital channels are being explored.

Effectively immediately, the BITUIN Program will roll out the following Quick Win Student Experience Improvements:

To minimize in-person submissions at the DLSU Manila campus, **The Office of Admissions and Scholarships (OAS)** will enter into **Courier Service Agreements** to allow Applicants and Students the option to submit documents through courier.

To reduce recurrences of dissolved classes during the first week of classes, the Colleges will **allow Vice Chairs to open and dissolve classes** as early as a day after the grade consultation day.

To improve the communication process regarding scholarships awarded and accepted, qualified applicants, the **Office of Admissions and Scholarships (OAS)** will provide the Colleges with **feedback on Granted Scholarships, as well as Scholars' Acceptance Rates**.



To expand payment options and replace over-the-counter (OTC) payments, **the Finance and Acquisitions Office (FAO)** will explore **e-wallet payment channels**, as well as **other payment gateway options**.

To streamline the LOA process and to minimize students going on AWOL, the University will **waive all approvals and fees related to Leave of Absence (LOA) Submissions and LOA Returnee Applications**.

The workshops were geared toward **defining clear and complete business requirements that would form the basis for developing an integrated, secure and stable Student Lifecycle Platform**.

From **August 1 to October 10, 2022**, two vendors, namely **Technopoly Inc. and Amihan Global Strategies**, were onboarded to lead the process and data workshops. Key business stakeholders, led by Dr. Robert Roleda as Executive Sponsor, were tapped from **FAO, OAS, Office of the University Registrar (OUR), and Office of Admissions and Scholarships for the Integrated School (OASIS)** to participate in the intensive process redesign workshops.

Technopoly Inc. and Amihan Global Strategies, DLSU's newest partners on the BITUIN Program, have a wealth of experience in

their respective domains. Technopoly's expertise revolves around strategic process implementation and quality management. Their clients include Jollibee, Robinsons Retail Holdings, Inc., Alaska Milk Corporation, PLDT, and Max's Group. Technopoly is run by an all-Lasallian Team headed by Managing Director and former College of Engineering Chair, Dennis Beng Hui.

On the other hand, Amihan Global Strategies is a digital consulting and technology company that builds sustainable engineering solutions from analytics to cloud-enabling IT infrastructure, support companies like BDO, Penshoppe, Pioneer Insurance, and Aboitiz. Amihan Global Strategies is chaired by Lasallian Alumnus Winston Damarillo.

University Fellow appointed to NAST Executive Council

ACADEMICIAN, UNIVERSITY FELLOW AND DISTINGUISHED PROFESSOR OF THE DEPARTMENT OF MECHANICAL ENGINEERING DR. ALVIN CULABA

was recently appointed as a member of the Executive Council of the National Academy of Science and Technology (NAST).

Likewise, he will concurrently serve as chair of the Engineering, Sciences and Technology Division of the Academy.

NAST is an attached agency of the Department of Science and Technology. Its general administration and directions are vested in the seven-member Executive Council appointed by the President of the Philippines for a three-year term.

Prof. Culaba is also a Fellow of the ASEAN Academy of Engineering and Technology. He is widely recognized for his contributions to his field as well as to the fields of education and learning.

He is known for his pioneering work in the area of Life Cycle Assessment methodology. He specializes in mechanical engineering, design engineering, mechanical engineering design, and mechanical processes. His research finds applications in energy-environment interactions like cleaner production technology, energy technology and management, alternative energy, environmental management systems, manufacturing and environmental systems engineering, and renewable energy systems.

Culaba



GCOE research on Industrial Engineering bags Best Presentation Award

A FACULTY MEMBER OF THE DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING RECEIVED THE BEST PRESENTATION AWARD AT THE 10TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND APPLICATIONS (ICIEA)

held last January 9-11 in Rome, Italy.

Ronaldo Polanco presented the paper "A Cost Minimization Model for a Multi-Mode, Multi-skilled, Resource-Constrained Project Scheduling Problem with Discrete Time-Cost-Quality-Risk Trade-Off".

ICIEA is the leading conference to disseminate, to all branches of industries, information on the most recent and relevant research, theories and practices in ICIEA. All submissions are subjected to rigorous review before an acceptance decision is made. This conference has been attended by more than 1000 participants from 50 countries since 2014 and successfully been held in Sydney, Singapore, Hong Kong, Nagoya, Tokyo, Paris, among others.

WIPO, WTO colloquium features La Salle talk on IP Management and Commercialization

A PROJECT DIRECTOR OF THE DLSU INNOVATION AND TECHNOLOGY OFFICE PARTICIPATED IN THE 18TH COLLOQUIUM FOR TEACHERS OF INTELLECTUAL PROPERTY

hosted by the World Intellectual Property Organization (WIPO) and the World Trade Organization (WTO) at their respective headquarters in Geneva, Switzerland from November 7 to 18, 2022.

Peter Immanuel Tenido was among the 23 participants from all over the world invited to the event. He made a presentation on DLSU's IP Management and Commercialization of University-generated Biomedical Devices and Health Technologies.

Among the participants were Intellectual Property teachers, researchers, and/or practitioners from developing countries and countries in transition. They joined discussions with about 30 experts from WIPO, WTO, other intergovernmental organizations, non-governmental organizations, delegations, and industry.

The colloquium tackled IP issues at the international level, including current activities of the WIPO and WTO as well as policy and legal issues under debate. Among the topics discussed were IP issues relating to public health, climate change, biodiversity, artificial intelligence, the digital environment, the protection of traditional knowledge, and biotechnology.

Discussions also focused on the development and improvement of IP teaching methodologies as well as IP research.



FACTS and FIGURES

11th Annual Pillar of Lasallian Educators Excellence Awards

Pillars of Lasallian Excellence



St. John Baptist de La Salle Pillar of Lasallian Excellence Award
Dr. Gil Nonato Santos



St. Benilde Romancon
Pillar of Lasallian Excellence
in Teaching
Dr. Esperanza Cabrera



St. Miguel Febres Cordero
Pillar of Lasallian Excellence Award
in Research
Dr. Luis Razon



St. Jaime Hilario
Pillar of Lasallian Excellence
Award in Community Engagement
Dr. Chona Camille Abeledo

Pillars of Lasallian Excellence

Small Department Category

Business and Social Sciences
Department of
Marketing and Advertising

Humanities and Education
Department of
Science Education

Science and Technology
Department of
Manufacturing Engineering
and Management

Big Department Category

Business and Social Sciences
Department of
Sociology and
Behavioral Sciences

Humanities and Education
Department of
Theology and
Religious Education

Science and Technology
Department of
Chemical Engineering

11th Annual Pillar of Lasallian Educators Excellence Awards

Outstanding Book/Monograph in Filipino

Ang Itim Na Orkidyas ng Isla Boracay:
Mga Kuwento: UP Press, 2021

Dr. Genevieve Asenjo
Department of Literature

Sa Yakap ng Gubat at Dagat ng Palawan:
Mga Ekosanaysay. Davao City: Pawikan Press, 2021

Dr. John Iremil Teodoro
Department of Literature

Outstanding Book/Monograph in English

Affect, Narratives and Politics of
Southeast Asian Migration, Routledge, 2021

Dr. Carlos Pocos III
Department of Literature

What Kapitan Tiago Served and
Padre Damaso Ate (2021)

Dr. Jose Victor Torres
Department of History

Gawad Dangal Lasalyano

Integrated School Awardees

Anne Jeannette Pamplona
(Grade 3-6 Cluster, ISGS Division)

Imelda Onquit
(Grade 7-8 Cluster, JHS Division)

Princess Gissel Servo
(Grade 9-10 Cluster, JHS Division)

Christian Gopez
(HUMSS, SHS Division)

Von Karlo Gonzales
(GCU, Student Affairs Division)

Students' Search for Outstanding Faculty Advisers

Department of International Studies for
College of Liberal Arts Professional
Organizations 13

Ma. Sjenica Sevilla

Industrial and Systems Engineering
Department for Engineering Alliance
Geared Towards Excellence

Dr. Jayne San Juan

Department of Decision Sciences and
Innovation for Alliance of Special
Interest and Socio-civic organizations

Reinnite Madrid

Department of Financial Management for
Alliance of Professional Organizations of
Business and Economics

Atty. Rene Betita

Department of Physics Alliance of
Science Organizations

Dr. Rene Batac

Source: 11th Annual Pillar of Lasallian Educators Excellence Awards event



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.

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