



University of the Philippines Los Baños

The Chancellor's Report

UPLB'S ACCOMPLISHMENTS

November 2014-October 2017

*Strengthening the Foundations of a Globally Competitive Graduate
and Research University Contributing to National Development*

Fernando C. Sanchez, Jr., Ph.D.



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November 2014-October 2017

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Published by:
Office of Public Relations
Office of the Chancellor
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About the Cover

The cover is part of an imposing mural painted by grUPo currently installed at the historic DL Umali Hall. The mural recreates UPLB's rich history by paying homage to the icons of its past and communicating the Los Baños spirit of building upon the accomplishments of our predecessors in order to forge a strong present and even stronger future. Central to this spirit is the essence of the Oblation, the perpetual symbol of UP's character and penchant for selfless service to the nation. The spirits of both Los Baños and the Oblation served as ideals for the initiatives and endeavors accounted for in this report as well as the inspiration of the men and women who worked towards their accomplishment.

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Acknowledgement

We would like to thank all deans, directors, unit heads, and staff who contributed to this report.



THE CHANCELLOR'S REPORT

*Strengthening the Foundations of a
Globally Competitive Graduate and
Research University*

NOVEMBER 2014-OCTOBER 2017



“We should consider that the meaning and value of honor and excellence is further deepened when it is coupled with compassion. We should keep it in our hearts and minds as this will be the foundation upon which we can successfully carve out our plans for the future.”

Atty. Danilo C. Concepcion
21st UP President



“In your pursuit of excellence, do not overlook honor. Honor determines the value of excellent work. Honor and excellence together will make the whole and define your integrity.”

Hon. Alfredo E. Pascual
20th UP President



“Before we become a globally illustrious university, we must first be an honorable, excellent, and relevant one...Let us move on in pursuit of soaring goals, but let us do so grounded in our most fundamental purpose to serve the Filipinos. Let us move forward as Iskolar ng Bayan para sa Bayan!”

Fernando C. Sanchez, Jr., Ph.D.
9th UPLB Chancellor

Table of Contents

14

Key Goal 1

SUSTAINING ACADEMIC EXCELLENCE AND LEADERSHIP

- 15 | Responsive and relevant academic programs
- 24 | Globally competitive academic and research programs
- 26 | Notable students and graduates
- 30 | Stable corps of eminent educators, REPS, and support staff
- 40 | Holistic educational development through the culture and the arts, and sports

46

Key Goal 2

PROMOTING THE USE OF UPLB'S KNOWLEDGE AND TECHNOLOGIES TOWARDS ATTAINING INCLUSIVE GROWTH

- 47 | Improved fund generation for revitalized research activities
- 50 | Enhanced technology development and commercialization
- 52 | Contributions to advancing national policy and the Philippines' development agenda
- 57 | Strategic and interdisciplinary action programs
- 61 | Increased research management
- 62 | Greater knowledge sharing
- 64 | More accessible knowledge and technologies
- 72 | Stronger commitment to academic leadership and excellence

76

Key Goal 3

CREATING AN ENABLING ENVIRONMENT FOR CREATIVITY AND INNOVATION

- 77 | Improved resource mobilization for strategic research and public service
- 80 | Enhanced administrative efficiency through streamlined interdepartment and cross-unit processes
- 82 | Upgraded infrastructures and facilities
- 98 | Strengthened campus safety and security
- 101 | Institutionalized green campus program
- 103 | Disaster and risk reduction management
- 104 | Broadened student and staff welfare policies and activities
- 110 | Expanded external networks and support

Acronyms

ADF	Academic Development Fund	CEAT	College of Engineering and Agro-industrial Technology	EU-SHARE	European Union Support to Higher Education in the ASEAN Region
ALC	Academic Leadership Conference	CEM	College of Economics and Management	FSTP	National Corn-based Farmer-Scientists RDE Training Program for Sustainable Agricultural Development under EO 710
AMDP	Agricultural Mechanization Development Program	CFNR	College of Forestry and Natural Resources	FMIS	Financial Management Information System
ANFLOCOR	Antonio Floirendo Management and Investment Corporation	CHE	College of Human Ecology	GAD	Gender and Development
APEC	Asia-Pacific Economic Cooperation	CHED	Commission on Higher Education	GS	Graduate School
APP	Annual Procurement Plan	CHED-IDIG	Commission on Higher Education Institutional Development and Innovation Grant	HEADS	Higher Education Administrators' Development Seminar
APRI	Aboitiz Power Renewables, Inc.	CSB	Community Support Brigade	HEARTS	Higher Education Assessment for Relevance Towards Sustained Institutional Excellence: An Orientation
ARB	Agrarian Reform Beneficiaries	CTTE	Center for Technology Transfer and Entrepreneurship	HEI	Higher Education Institution
ASEAN	Association of Southeast Asian Nations	CU	Constituent University	HITSS	Honing Innovative Teaching Skills Seminar
ASI	Agricultural Systems Institute	CWTS	Civic Welfare Training Service	HLURB	Housing and Land Use Regulatory Board
ATI	Agricultural Training Institute	DAME	Department of Agribusiness Management and Entrepreneurship	HRIS	Human Resource Information System
AUN-QA	ASEAN University Network-Quality Assurance	DA-BAR	Department of Agriculture-Bureau of Agricultural Research	IBRSC	Interdisciplinary Biofuels Research and Studies Center
BAO	Business Affairs Office	DAR	Department of Agrarian Reform	IC	Institute of Chemistry
BFAR	Bureau of Fisheries and Aquatic Resources	DENR	Department of Environment and Natural Resources	ICMF	National Program for Integrated Crop Monitoring and Forecasting System
BFP	Bureau of Fire Protection	DILG	Department of Interior and Local Government	ICROPS	Institute of Crop Science
BIDANI	Barangay Integrated Development Approach for Nutrition Improvement	DOH	Department of Health	IAS	Institute of Animal Science
BIOMECH	Center of Agri-Fisheries and Biosystem Mechanization	DOST	Department of Science and Technology	IFST	Institute of Food Science and Technology
BIOTECH	National Institute of Molecular Biology and Biotechnology	DPWH	Department of Public Works and Highways	ILC	Interactive Learning Center
BOR	Board of Regents	DTRI	Dairy Training Research Institute	ITC	Information Technology Center
BSA	BS Agriculture	ECC	Environmental Compliance Certificate	INREM	Interdisciplinary Studies Center for Integrated Natural Resource and Environment Management
CAFS	College of Agriculture and Food Science	ECWRG	Enhanced Creative Work and Research Grant	IPA	International Publication Award
CALABARZON	Cavite, Laguna, Batangas, Rizal, and Quezon	EIDR	Emerging Interdisciplinary Research Program	IPB	Institute of Plant Breeding
CAS	College of Arts and Sciences	eHOPE	Enhanced Hospitalization Program	IPCR	Individual Performance and Commitment Review
CCA	Climate Change Adaptation	EMB	Environmental Management Bureau	ISC-FaNS	Interdisciplinary Studies Center on Food and Nutrition Security
CDC	College of Development Communication	ERDB	Ecosystems Research and Development Bureau	IT	Information Technology
CDRSC	Climate and Disaster Risk Studies Center	eUP	Electronic University of the Philippines	IWEP	Institute of Weed Science, Entomology, and Plant Pathology

JESAM	Journal of Environmental Science and Management	OSA	Office of Student Affairs	SARAI	Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines
LBSCFI	Los Baños Science Community Foundation, Inc.	OUR	Office of the University Registrar	SEARCA	Southeast Asian Regional Center for Graduate Study and Research in Agriculture
LCCAP	Local Climate Change Action Plan	OVCAA	Office of the Vice Chancellor for Academic Affairs	SESAM	School of Environmental Science and Management
LGMO	Land Grants Management Office	OVCCA	Office of the Vice Chancellor for Community Affairs	SEZ	Special Economic Zone
LGU	Local Government Unit	OVCPD	Office of the Vice Chancellor for Planning and Development	SFAD	Student Financial Assistance Division
LiDAR	Light Detection and Ranging	OVCRE	Office of the Vice Chancellor for Research and Extension	SOT	Seminar on Teaching
LITE	Language Instruction Towards Excellence	OVPA	Office of the Vice President for Public Affairs	SPMO	Supply and Property Management Office
LQLG	Laguna-Quezon Land Grant	PCHRD	Philippine Council for Health Research and Development	SPMS	Strategic Performance Management System
LLG	Laguna Land Grant	PCIEERD	Philippine Council for Industry, Energy and Emerging Technology Research and Development	SPWWS	Scientific Paper Writing Workshop Series
LTO	Land Transportation Office	PEPRMP	Programmatic Environmental Performance Report and Management Plan	SPCMIS	Supply, Procurement, and Campus Management Information System
LTS	Literacy Training Service	PEZA	Philippine Economic Zone Authority	SRA	Sugar Regulatory Administration
MBG	Makiling Botanic Gardens	PGCA	Philippine Genome Center – Program for Agriculture, Livestock, Fisheries, and Forestry	TCOW	Technology Commercialization on Wheels
MMDA	Metro Manila Development Authority	PhilTrop	Philippine Center for Tropical Forest Science	TBI	Technology Business Incubator
MMFR	Mount Makiling Forest Reserve	PHTRC	Postharvest Horticulture Training and Research Center	TNE	Transnational Education
MNH	Museum of Natural History	PIEP	Philippine Institute for Environmental Planners	UHS	University Health Service
MOA	Memorandum of Agreement	PM-TMEM	Professional Masters in Tropical Marine Ecosystems Management	UHO	University Housing Office
MODECERA	Monitoring and Detection of Ecosystems Changes for Enhancing Resilience and Adaptation in the Philippines	PPMP	Project Procurement Management Plan	UIS	University Information Service
MOU	Memorandum of Understanding	PSC	Philippine Satellite Campus	UK	United Kingdom
MSI	Marine Science Institute	PS-DBM	Procurement Service-Department of Budget and Management	UPF	University Police Force
MS FSCC	Master of Science in Food Security and Climate Change	PRC	Professional Regulation Commission	UPMO	University Planning and Maintenance Office
NCPC	National Crop Protection Center	PTFCF	Philippine Tropical Forest Conservation Foundation, Inc.	UNCLOS	United Nations Convention on the Law of the Sea
NGCP	National Grid Corporation of the Philippines	PWD	Person with Disability	UoL	University of Liverpool
NIGS	National Institute of Geological Sciences	QA	Quality Assessment	UoR	University of Reading
NPGRL	National Plant Genetic Resources Laboratory	RA	Republic Act	UP	University of the Philippines
NSTP	National Service Training Program	RAATI	Regional Annual Administrative and Tactical Inspection	UP PSAE	University of the Philippines Professional School for Agriculture and the Environment
NSTW	National Science and Technology Week	RDE	Research, Development, and Extension	UPLB	University of the Philippines Los Baños
NU-ASCI	Nagoya University Asian Satellite Campuses Institute	REDREC	Rural Economic Development and Renewable Energy Center	UPLBFI	University of the Philippines Los Baños Foundation, Inc.
NWRB	National Water Resources Board	REPS	Research, Extension, and Professional Staff	UP REPSS	University of the Philippines Society of Research, Extension, and Professional Staff, Inc.
OBE	Outcomes-based Education	ROTC	Reserve Officers Training Corps	UPRHS	University of the Philippines Rural High School
OHSSC	Occupational Health and Safety and Standards Committee	R&E	Research and Extension	USAID-STRIDE	United States Agency for International Development - Science, Technology, Research, and Innovation for Development Program
OP	Office of the President	SAIS	Student Academic Information System	WESM	Wholesale Electricity Spot Market



Our Strategic Plan

Vision

A globally competitive graduate and research university contributing to national development

Mission

To develop leaders committed to advancing inclusive growth through education, research, and public service

Our core value

Working together for excellence

Institutional Outcomes

- 1** Lead in searching for knowledge in agriculture, forestry, biotechnology, veterinary medicine, mathematics, engineering, food and nutrition, the arts and humanities, and the social sciences.
 - 2** Conduct basic and applied research and development, thereby contributing to the generation of new knowledge and products.
 - 3** Undertake community, public and volunteer service, as well as scholarly and technical assistance to the government, the private sector, and civil society.
 - 4** Demonstrate democratic values, practice responsible citizenship and nationalism while actively interacting with the global community and helping address global issues, at the same time promoting the Filipino identity.
-

Key Goals and Programs

- 1** To sustain academic excellence and leadership
- 2** To utilize knowledge and technologies towards inclusive growth
- 3** To create an enabling environment for creativity and innovation



Executive Summary

In the past three years, we witnessed developments in UPLB that are aligned with the vision-mission that I articulated in November 2014 when I took the helm as Chancellor of UPLB. Our vision was to make UPLB a globally competitive graduate and research university contributing to national development.

This vision-mission, in turn, is inspired by the vision articulated by the leadership of the University of the Philippines (UP) highlighting the role of the 'university in shaping the minds that shape the nations.' After all, as part of the National University, we also hone and learn from our students - the Scholars of the Nation (*Iskolar ng Bayan*) –to be socially responsible partners in inclusive national development.

To achieve this vision-mission, we pursued three key goals. First, we strengthened our academic programs in the context of internationalization and national development. Second, we enhanced our research productivity and public service functions. And third, we provided an enabling environment for creativity and innovation and enhanced the welfare of our students, constituents, and other stakeholders.



Strengthened Academic Programs

With our emphasis on participatory growth, we transformed our academic programs into outcomes-based education courses through widespread curricular reviews and consultations with constituents and partners in the industry and the academe. Some of these revitalized programs—BS Biology, BS Agricultural and Biosystems Engineering, BS Development Communication, BS Agriculture, and BS Forestry—are now certified under the ASEAN University Network-Quality Assurance system while others are expected to be certified next year.

UPLB is also scheduled to undergo institutional quality assessment under the EU-SHARE and will be the first UP constituent university to do so. As a first step, we have already constituted a UPLB Quality Assurance Committee, which we will eventually institute as an office.

In our bid for UPLB to be a globally competitive graduate and research university, we established partnerships and collaborative undertakings with higher education institutions (HEI) and the private sector. These partnerships not only established our presence and mobility in the international arena but also enabled us to contribute towards building knowledge capital in the country. UPLB, through the Graduate School, is hosting the Philippine Satellite Campus of Nagoya University, which provides a venue for mid- to senior-level government officials to pursue Transnational Doctoral Programs for Leading Professionals in the Japanese university. We are also proposing a joint dual Ph.D. degree program in agricultural economics, agronomy, animal science, environmental economics, and horticulture with the University of Reading in the UK.

The Collaborative Doctor of Philosophy by Research degree program is currently being developed with Curtin University in Perth, Western Australia. The program will produce graduates with research skills in agribusiness management, agricultural prices and marketing, development economics, entrepreneurship, environmental economics, and food and nutrition economics, and equipped with international exposure in professional practice necessary for global competency. In cooperation with the University of Liverpool in the UK, we have pursued the Program for Relevant and Responsible Postgraduate Research under the Institutional Development and Innovation Grant of CHED. This partnership will enable UPLB to coordinate and focus research studies with multidisciplinary and interdisciplinary applications and facilitate funding resource. Along these lines, the MS Food Security and Climate Change program is also being developed in partnership with the other four members of the University Consortium with funding from the Erasmus+ grant of the European Union including the MS Tropical Forest Biodiversity program.

Various off-campus graduate programs in partnership with government line agencies and the private sector are also being implemented to help build knowledge capital in the country. Such arrangements have enabled government personnel to take and complete graduate studies without having to leave home or offices to enroll in UPLB. The GS is currently administering eight such graduate programs, and one of these has progressed into the establishment of the UP Professional School for Agriculture and the Environment in Davao through a partnership with ANFLOCOR, a major agricultural production company in the Philippines.

In the last three years, we reasserted our culture of academic excellence with the recognition of eight programs as CHED Centers of Excellence and one as a Center of Development for Excellence. The University also posted competitive passing rates in 11 licensure examinations of the PRC and was named as the top-performing school in these licensure examinations.

Enhanced Research, Development and Extension/ Public Service

The 107 UPLB-monitored research projects for 2015 surged to 132 in 2016. In just six months in 2017, we already surpassed the completed researches for the whole 2015. The International Publication Awards has doubled each year since 2014. In technology development and commercialization, we have developed 15 new crop varieties and monitored commercialization of 32 technologies in biotechnology, food and feed production, food safety, and nanotechnology. These technologies are currently in advanced stages of commercialization.

After almost five years, we were able to sign the registration agreement with PEZA for the development of the UPLB Agro-Industrial Park and the Information Technology Park, an initiative started by the previous administrations.

Meanwhile, our knowledge products and research continued to advance the Philippines' development agenda in agriculture, climate change adaptation and mitigation, and food security. Foremost among these are the National Corn-Based Farmer-Scientists RDE Training Program for Sustainable Agricultural Development under EO 710, which has become a national program. We are also implementing various interdisciplinary research such as MODECERA, SARAI, and LiDAR.

Our track record in program implementation has not only made UPLB a premiere source of expert assistance to government but also one of the most responsive institutions on meeting technical assistance requests from various government line agencies. We are set to formulate the National Water Security Roadmap in the context of climate change and globalization with funding from the National Water Resources Board.

UPLB was also entrusted to consolidate local and global studies related to water security to help identify the major issues from seven focus areas: domestic, economic, agriculture, environment, urban, resilience, and governance. Together with the Steering Committee on National Water Security Roadmap and Summit 2017, a national assembly will be organized this year as venue to present our key findings.

We are also developing a detailed and unified agricultural agenda in collaboration with stakeholders through the National Agriculture Summit. We have helped develop agricultural machines and tools through the BIOMECH and contributed to the gathering of information and data regarding the ecological and economic potential of Benham Rise.

Enabling Environment for Innovation, Creativity, and Productivity

For scholarly work, innovation, and creativity to flourish, we strengthened an enabling environment for our students, constituents, alumni, as well as partner stakeholders. We allocated substantial investments in human resource development and capacity building, infrastructure and facilities development, and welfare of our students, staff, alumni, and community partners.

Master planning for a green campus

Taking off from the UP Strategic Plan 2011-2017 and the UPLB Strategic Plan 2014-2017, we designed the UPLB Campus Master Plan (UPLBCMP) that defined our land use policies and development plans. Central to our plan is a physical layout of infrastructure that promotes efficiency, inclusive mobility, and environmental sustainability. The UPLBCMP divides the campus into different clusters with buildings and facilities grouped together based on function and use.

Parallel to the implementation of the UPLBCMP, we instituted policies to ensure UPLB's compliance with environmentally sustainable standards and practices. Specifically, we drafted the Programmatic Environmental Performance Report and Management Plan (PEPRMP), which now reports the different environmental measures to protect and mitigate adverse impacts of our activities on community health and the environment. With the PEPRMP, we were able to secure an Environmental Compliance Certificate from the DENR last April 25, 2016.

We implemented other green initiatives such as replacing 400 units of sodium vapor street lamp lights with more efficient LED lights. We also intensified the implementation of the LB Municipal policies against littering and the use of plastics to reduce the non-biodegradable waste materials that we generate. Lastly, we strictly implemented a no tree-cutting policy and observed balling out those that are affected by campus physical development.

Campus development

Infrastructure modernization has been one of our priorities in pushing UPLB to become a globally competitive university. Among our modest accomplishments are the rehabilitation of the IPB Road, expansion of the Pili Drive with a bike lane, and construction of a two-lane reinforced concrete deck girder bridge across Molawin River to connect Victoria Ela St. and Victoria Ela Extension that provide alternative road access into the UPLB campus.

In terms of new infrastructures, PhP 103.568 million worth of new facilities and renovated structures were completed as of July 2017. The important items under this are the REDREC building, Philtrop Center, as well as the rehabilitation of the DL Umali Auditorium and installation of new pad mounted transformers at the IBS, PhySci, DMST, Agronomy, Humanities, and CEAT B buildings.

Another PhP 243.112 million worth of projects are on-going and PhP 1.254 billion more are in the pipeline. These include the UPLB Nanotechnology Center, Controlled Environmental Research Facility, Philippine National Collection of Microorganisms, Philippine Genome Center for Agriculture, CEM 4-storey Economics and Management Center, CEM Multi-Purpose Building, PhilTrop, NPGRL, UHS Extension Building, and University Registrar and Communal Classroom Building.

We also invested in new laboratory equipment and facilities for all colleges and research units. At CVM, we established the Animal Surgical Laboratory and acquired anesthesia machine, auto-imaging system, and multi-analyte biochip array analyzer. For CEAT, we acquired a universal testing machine, 3D printer, and a milling machine. In CHE, we renovated the Bioassay laboratory and rehabilitated the exhaust system of three laboratories. For CFNR, we acquired vacuum pump, air compressor, and a spectrophotometer. For CDC, we established a new media laboratory equipped with 24 Apple iMac computers and audio-visual equipment.

At CAFS, we renovated the BL2 Building of IPB and the cold room refrigeration system of PHTRC's Instrument Room. For the Nanotechnology Program, we established the Nanotechnology Analytical and Instrumentation Service Lab equipped with a gas chromatograph-mass spectrometer, an ultra-fast liquid chromatograph, and an inductively coupled plasma emission spectrometer.

In telecommunications and connectivity, we increased our bandwidth under the auspices of the eUP Program. Our network is now running at 2.155 Gbps or about 20 times faster than the 103 Mbps bandwidth we had in 2014. We are also implementing a parallel five-phase IT infrastructure project to further upgrade the network equipment and changing the fiber optic cables from multi- to a single-mode type, which will optimize our network connection. Furthermore, we upgraded the campus-wide WiFi System by installing additional access points in 18 other areas primarily at the University Library, Student Union, and the student dormitories where there are concentrations of students and activities.

We implemented electrical system improvements in the campus by upgrading overhead distribution lines, replacing old wooden lamp posts into concrete ones, and laying out additional insulated cables to and around the CNFR to improve power distribution in the upper campus areas. We have also replaced 110V transformers with 220V transformers to suit standard voltage requirement of equipment and appliances in current use.

We made headway in efforts to cut down spendings in the procurement of power supply by becoming a direct member of the Wholesale Electricity Spot Market (WESM), becoming the first university in the country to do so. On the first month as member in June 2016, we were already able to save over PhP 1.0 million in power expenses.

Academic leadership and innovations

As additional support for instruction, research, and public service, we conducted knowledge sharing activities that broadened our faculty and staff's leadership, innovative thinking, and competence in the context of UPLB's internationalization and global competitiveness goals. We also pushed academic personnel development by supporting staff involvement in special training programs, higher degree studies here and abroad, and other retooling opportunities as part of our response to the implementation of the K to 12 Program.

Beyond participation, UPLB also took leadership of international/national discussions in various areas such as bioenergy, graduate research and graduate education, food and nutrition security and safety, human ecology, environmental science, sustainable lake ecosystems management, integrated natural resource and environment management, agricultural structural transformation, water security, climate change, disaster risk management, and internationalization.

As testament to the enabling environment and support for faculty and staff productivity, we were able to facilitate the granting of an unprecedented number of UP Scientist, technology disclosure and international publication awardees, as well as a large number of recipients of the One UP Professorial Chair grants. Internally, we continued recruiting the best qualified including accomplished and reputed experts in their field through the Balik-Ph.D. Program.



From November 2014 to July 2017, significant investments were put into new opportunities for mobility of students and staff through exchange study and collaborative research programs. During the three-year period, we inked partnerships with 39 universities abroad, which was 50% more than the international partnerships we had as of October 2014.

To enhance research productivity, we put in place the Basic Research and Publication Grant Programs as means of accessing core funds for small researches that also served as opportunities for research involving and mentoring our young faculty members in research initiatives. To supplement such efforts, we held the Scientific Paper Writing Workshop Series in order to increase the scientific productivity of our faculty and researchers and implemented mechanisms to increase the use and citations of their scientific and creative works. To shore up REPS welfare, we pushed for the application of interim tenure guidelines while the 'Up or Out' policy was suspended, promoted qualified REPS, and implemented a just and equitable workload crediting and evaluation system.

From 2014-2017, UPLB also received approximately Php 312.856 million to build and refurbish laboratories and to buy new laboratory equipment. We also received Php 1.305 billion research funds from 2014 to 2016 from various resources.

Staff and community health welfare

As an important highlight of our accomplishment to serve the immediate community, we improved the general condition of the UHS, encouraged and supported the implementation of health-related public service initiatives like the Diabetes Mellitus Health Education Program, UPLB Quit Smoking Support Program, Nutrition Counseling Program, Elderly Program on Dementia and Alzheimer 's disease, and UHS Mass Immunization Program. As testament to an improved operational efficiency and broadened public service involvement, the UHS was named the Most Outstanding Government Hospital In Laguna in 2015.

Among UPLB employees, we availed of the hospitalization support and other benefits of the eHOPE program. We also contracted a mental health professional to cater to the needs of students and staff with psycho-social or psycho-emotional problems.

Administrative efficiency

To streamline operations in our financial management, supply procurement, human resources development, and student enrollment, we improved on the use of new information systems as well as capacitated our constituents to manage these systems effectively. We enhanced our homegrown systems and created the University Planning and Maintenance Office (UPMO), which was approved by the BOR at its 1320th meeting on August 25, 2016.



All the accomplishments of UPLB from November 2014 to October 2017 are a confluence of our revered tradition of honor and excellence; our vision-mission to be a globally competitive graduate and research university contributing to national development; and our judicious management of resources – manpower, finances, and facilities.

But a vision and enabling mechanisms come secondary to the commitment of all stakeholders in UPLB – from the pioneers who laid the foundation of what we are working on to the present generation of leaders and partners who are making all things happen.

We are blessed with that collegial spirit – that thread of community and family – that continues to bind our alumni, students, and staff – amidst diversity and challenges in a fast changing world.

It is this spirit that links all our efforts into one concerted force – as we work together – for honor, excellence, and social relevance. It is this same spirit that connects our past, present, and future as we re-establish UPLB's niche as a premier University in the ASEAN region.

Fernando C. Sanchez, Jr., Ph.D.
Chancellor





KEY GOAL 1
*Sustaining academic
excellence and leadership*

Responsive and Relevant Academic Programs

Periodic curricular revisions for continuous academic program improvement

To ensure UPLB's responsiveness and relevance to the emergent needs of the country, we not only instituted new baccalaureate and graduate degree programs coherent with the demands of the times but also conducted intensive reviews of our current ones. As a result, we created new and stronger programs by merging existing curricular offerings, revising weak programs into interdisciplinary or multi-disciplinary ones, and streamlining dated courses.

University-wide paradigm shift

As foundation to better and stronger curricular programs, UPLB shifted to OBE, or outcome-based education. The said paradigm emphasizes the need to focus instruction on intended learning outcomes that produce not just quality outputs of curricular requirements but also outstanding professionals and leaders as envisioned by the University. Consistent with the distinctive leadership in higher education and development called for by the UP Charter of 2008, we initiated extensive curricular review activities across all academic units of UPLB. Spearheaded by the University Council Curriculum Committee (UC-CC) and the Office of the Vice Chancellor for Academic Affairs, the integration of the OBE paradigm in all UPLB courses served as imperative for the reviews and revisions that started with the graduate courses last July 20-22, 2015.

K to 12 Attuned Programs

The UC-CC has also started revising 28 baccalaureate degree programs that were reviewed since Sept. 2015. Aside from reorienting these offerings into OBE courses, a number of the programs were also revised to regulate overlaps with the Basic Education K-12 program. The revised programs will be implemented in AY 2018-2019 when the first graduates of the K-12 are expected to enroll. We also revised the UPRHS curriculum based on K-12 and assured the availability of the senior high school tracks in Science, Technology, Engineering, Mathematics, and the General Academic Strand.

Curriculum revision

20 revised programs*

by the University Council Curriculum Committee

8 being reviewed*

*out of 28 BS Programs

24+3 units

Instituted the UPLB General Education (GE) Program



Internationalization

With the need to make our graduates globally competitive in Asia and the international arena, UPLB intensified its visibility and mobility in international higher education undertakings, certification of programs, implementation of transdisciplinary and transborder researches, and collaborative undertakings with foreign institutions.

AUN-QA certified programs

AUN aims to standardize the quality of higher education systems and programs in the ASEAN region in order to promote faculty and student cross-country mobility, collaborative researches among peers, and credit transferring among member institutions. Five UPLB undergraduate programs, namely: BS Biology, BS Development Communication, BS Agricultural and Biosystems Engineering, BS Agriculture, and BS Forestry were certified by the AUN-QA as testament to the improved global competitive standards of UPLB's curricular offerings.

Establishment of the QA Committee

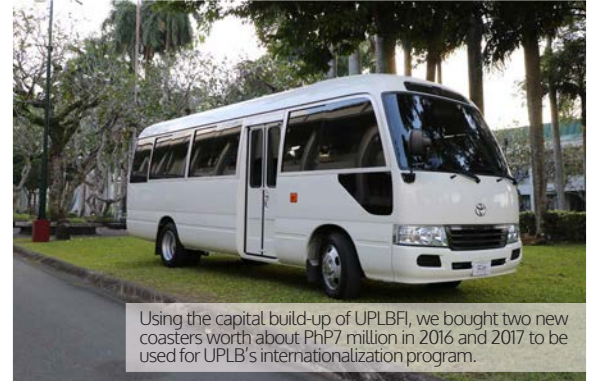
On January 5, 2017, a special UPLB committee was constituted to spearhead the assessment of UPLB's programs by the AUN-QA as well as the institutional assessment of UPLB by the EU-SHARE. The committee also aims to institutionalize the culture of quality control in the University through capacity-building and preparing the University for internal or external assessment, accreditation, or audit processes. Two of the QA Committee's members, Drs. Nina M. Cadiz and Serlie Barroga-Jamias, were trained as external assessors for the AUN-QA (Tier 1 and Tier 2) along with 15 other members from other UP CUs through the initiative of the UP Office of the Vice President for Academic Affairs.



This is part of the PhP72-million Graduate School International Student and Cultural Center that is now being constructed in the Graduate School site. Groundbreaking ceremony took place on December 2, 2015.



UPLB became the sole Philippine HEI to host the Nagoya University satellite campus effective January 2016.



Using the capital build-up of UPLBF, we bought two new coasters worth about PhP7 million in 2016 and 2017 to be used for UPLB's internationalization program.

Establishment of the Graduate School International Student and Cultural Center

With the ceremonial groundbreaking last December 2, 2015, the construction of the Graduate School International Student and Cultural Center is now underway. The PhP 72-million infrastructure building shall serve not only as new housing and social facility but as a symbol of UPLB's vision and commitment to become a premiere graduate university.

The Nagoya University Satellite Campus

To further demonstrate this vision and commitment, UPLB hosted the Nagoya University (NU) Satellite Campus, the only Philippine HEI to do so. The UPLB-NU collaboration also made the Philippines one of only eight countries to host the NU Asian Satellite Campus, which started offering the Transnational Doctoral Programs for Leading Professionals in Asian Countries starting last January 2016. The program caters to mid- and senior-level government officials who cannot leave their posts for a continuous period of three years to pursue doctoral studies in Japan.

As a result of the UPLB-NU collaboration, a joint Ph.D. Research Scholarship program for UP Faculty and REPS is also currently under review. The scholarship will be awarded to ten faculty members and/or REPS of UP who will take the Transnational Doctoral Programs for Leading Professionals in Asian Countries effective 2017. The Memorandum of Agreement (MOA) for the undertaking is currently being finalized through the efforts of the Graduate School, the UP Office of the Vice President of Academic Affairs, and counterpart offices at the NU ASCI. One UPLB faculty member is already expected to avail of the scholarship starting by October 2017.

Joint dual degree programs

Dual Doctor of Philosophy (Ph.D.) by Research Degree Program with the University of Reading

As part of the CHED-initiated Transnational Education (TNE) program administered by the British Council (Philippines), UPLB and the University of Reading (UoR) in Berkshire, United Kingdom, formalized its collaborative partnership with the signing of an MOU on May 30, 2017.

Specializations identified for the initial offering of the Dual Ph.D. program are agricultural economics, agronomy, animal science, environmental economics, and horticulture. Five faculty members from UPLB, one from each specialization, have already been identified as the pioneer batch of students in the dual program. The studies of these faculty members will be funded through the TNE scholarships of CHED and will be administered by the Graduate School.

Collaborative Doctor of Philosophy (Ph.D.) by Research Degree Program with Curtin University

On July 30, 2015, UP and Curtin University in Perth, Western Australia entered into an MOU to develop academic exchange through a joint degree program towards a Doctor of Philosophy. The program aims to produce graduates with higher level competence and international exposure in agribusiness management, agricultural prices and marketing, development economics, entrepreneurship, environmental economics, and food and nutrition economics. The academic cooperation will involve UPLB, UP Mindanao, and Curtin Business School. The proposal for the institution of the Collaborative Doctor of Philosophy (Ph.D.) by Research degree program and the necessary MOA for its implementation are currently being finalized, and the program is being targeted for implementation in the 2nd semester of AY 2017-2018.

MS Food Security and Climate Change

The Master of Science in Food Security and Climate Change (MS FSCC) is a joint undertaking among the five University Consortium (UC) member universities, namely: UPLB, Universiti Putra Malaysia, Institut Pertanian Bogor and Universitas Gadjah Mada (UGM) in Indonesia, and Kasetsart University in Thailand. The undertaking is being funded by an Erasmus+ grant from the European Union and is facilitated with the help of SEARCA. The program will be implemented in the 1st semester of AY 2018-2019.

To jumpstart the implementation of the program, a Postgraduate Summer School was hosted by UGM from July 10 to 28, 2017 in Yogyakarta, Indonesia. The Summer School, which included a seminar series on "Sustainability Transitions for Integrated Forestry Farming System: A transition to Food Security in a Changing Climate," will already form part of the units to be credited under the MS FSCC program. Two GS students participated in the Summer School and are expected to be the first takers of the MS FSCC.

While the institution of the joint program is underway, dual and double degree programs have been initiated among the UC universities in specializations that have bearing on food security and climate change issues. For UPLB, the MS Environmental Science and the MS Agricultural Economics programs are involved in the MS FSCC.

MS Tropical Forest Biodiversity

The proposed international program on MS Tropical Forest Biodiversity will be a joint program of UPLB, the Institut Pertanian Bogor (Indonesia), and the Universiti Putra Malaysia (Malaysia), three leading agriculture and forestry universities in Southeast Asia and active members of the UC. The MS Tropical Forest Biodiversity program is projected to require 41 units. Two roundtable discussions have already been conducted to finalize details of the program, which were held in Bogor, Indonesia last February 2016 and in UPLB last July 27 2017.

UPLB Graduate School Program for Relevant and Responsible Postgraduate Research (in cooperation with the University of Liverpool)

The Graduate School successfully proposed the establishment of the Program for Relevant and Responsible Postgraduate Research (P4R3) under the Institutional Development and Innovation Grant (IDIG) program of CHED. The Php 5 million-grant will fund activities and materials necessary for the 12-month project duration.

UPLB will collaborate with the University of Liverpool (UoL) in the United Kingdom to enhance UPLB's contribution to national development especially in advancing agricultural output, advocating environment-friendly economic activities, and facilitating excellent delivery of education. UoL has many interdisciplinary centers of excellence in advanced technologies.

The research agenda for the GS to be defined under the P4R3 will ensure multidisciplinary and interdisciplinary studies. Study and monitoring protocols will be developed. Finally, cascading all of these activities to state universities and colleges will allow UPLB to fulfill its mandate of mentoring them, as stated in the UP Charter of 2008.



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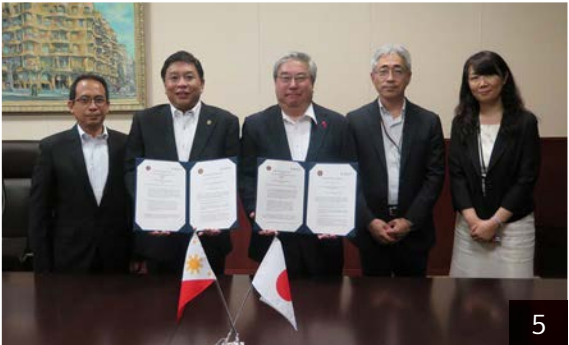
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Cultivating partnerships with international counterparts. 1) With UPLB and Kansas State University (KSU) officials in a visit to KSU on Oct. 16-26, 2016 to sign an MOA for faculty and student exchanges and research collaboration; 2) At the 28th SEARCA University Consortium (UC) Board Meeting at the Bogor Agricultural University in Indonesia on Nov 19-22, 2015 where UPLB signed an agreement that has paved the way for future collaborative academic activities with AGRINATURA-European consortium of research institutions and universities to further strengthen internationalization of graduate education; 3) At the First Journée Pays Philippines (Education Fair) in Paris, France on June 4-11, 2017. Members of the Philippine delegation in the photo are UP Manila Chancellor Carmencita Padilla and CHED Chair Patricia Licuanan; 4) With other UP System CU officials during the visit to Curtin University in Perth, Australia on Nov. 1-4, 2016 to discuss collaborative academic programs and research. In the photo are Larry Digal, dean of the School of Management of UP Mindanao; Dinah Pura Depositario, then chair of the Dept. of Agribusiness, Management, and Entrepreneurship; Isabelita Pabuayan, dean of CEM; Prof. Garry Allison, associate deputy vice chancellor, Research Training of Curtin University; Chancellor Sylvia Concepcion of UP Mindanao; Maria Fay Rola-Rubzen, associate professor at the Curtin Business School; and Jose V. Camacho, dean of the Graduate School; 5) At the signing of an MOU on June 29, 2017 with the Chiba Institute of Technology represented by President Kazuhito Komiya; 6) Visit to the University of Reading to discuss the establishment of the collaborative Doctor of Philosophy by Research Program on May 25-31, 2017. In the photo are UPLB GS Dean Camacho, Vice Chancellor of the University of Reading Sir David Bell, and UP VP for Academic Affairs Cynthia Rose Bautista; 7) The MOU signing with the Texas A&M University that has resulted in student exchange of a REPS to the said University; 8) UPLB and Tokyo University of Agriculture met with Michigan State University President Lou Anna Simon to finalize the three-way partnership between UPLB and the US universities and to identify collaborative RDE programs on food security, climate change, and water security on March 22-27, 2017; and 9) MOU Signing with University of Florida for cooperative efforts in faculty and student exchanges and research on Oct. 16-26, 2016.

Outbound and inbound students

Our internationalization initiatives include promoting cross-cultural enrichment and mobility of students through exchange study programs.

From 2014 to date, we sent 71 students to 23 universities in 12 countries to take courses that can be credited to their degree programs. Fifty percent of these outbound students attended American and Japanese universities.

On the other hand, UPLB received 82 students from partner universities around the world. A total of 36 percent of them came from Japanese universities, while almost a quarter were from American universities. The length of stay of these outbound and inbound students ranged from four months to one year.



LITE Program

The Language Instruction Towards Excellence (LITE) Program has been at the forefront of UPLB's bid for internalization for two decades now. LITE is an extension arm of the CAS that helps international undergraduate students achieve basic English proficiency and foreign graduate students meet the required standard of linguistic and communicative competence.

During the reporting period, the LITE Program conducted 16 training programs. Twelve of these fell under the Special LITE Plus Course for International Students, a 3-4-week course. Of the 12, one served as a teachers' training for Test of English as a Foreign Language (TOEFL) Review. Four trainings were under the Regular LITE category called Intensive English Course for International Graduate Students, which is a 150-hour training spread over the entire semester.

The LITE Program also accommodates one-on-one English tutorial classes, mostly for international clients. All in all, the Program had 229 students for the special, regular, and one-on-one classes.





Implementation of new academic programs

Various professional graduate programs

Professional Masters in Tropical Marine Ecosystems Management (PM-TMEM)

In 2015, we started implementing the PM-TMEM in collaboration with UP Diliman and UP Visayas. A distinctive element of the program is its integrative ecosystems and transdisciplinary approach implemented by interdisciplinary teams of faculty. The program also emphasizes hands-on field exposure and engagement with experts and practitioners. PM-TMEM seeks to address the gaps of effective management and good governance of tropical marine ecosystems, associated with the dearth of skilled expertise in this field. PM-TMEM was proposed by the administration of Chancellor Rex Victor O. Cruz and was institutionalized in AY 2014-2015. So far, UPLB has produced five PM-TMEM graduates.

New majors: Environmental Economics in MS Economics and the proposed Education and Development in Ph.D. Development Studies

Environmental Economics for MS Economics. Approved by President Danilo L. Concepcion last March 7, 2017, the Environmental Economics will be offered as a new field of specialization of the MS Economics program starting 1st semester AY 2017-2018. The new specialization will educate and train a new breed of economists capable of analyzing potential impacts of economic activities and policies on the environment.

Education and Development for Ph.D. Development Studies. Endorsed by the UPLB University Council at its 134th Meeting on June 16, 2017, the Ph.D. Development Studies will soon offer a field of specialization in Education and Development in addition to Agriculture, Food and Nutrition Security, Natural Resource Management, Agrarian and Rural Development Studies, and Population, Gender, and Development Studies.



(Left) Architect's perspective of the UP PSAE campus that will rise in Agriya City in Panabo, Davao del Norte, and (Right) the groundbreaking ceremony of Agriya City and the UP PSAE that was held on May 18, 2017. Agriya City is an 88-hectare mixed-used property development of ANFLOCOR and Damosa Land, Inc. and in it will be the 3.19-ha UP PSAE campus.

The UP Professional School for Agriculture and the Environment

The establishment of UP PSAE, UPLB's extension campus in Panabo City, Davao del Norte brings quality UPLB graduate and life-long learning to Davao Region and its neighboring communities. This exemplifies how a public-private educational partnership can meet the needs of various clientele, such as practitioners and those who could not afford to travel to UPLB for schooling. UP PSAE will rise in the 31,000 square-meter land to be donated by ANFLOCOR, which shall also donate the capital outlay for the new UPLB campus. UP has also allocated PhP 271 million for UP PSAE's first 11 years.

The UP PSAE timeline

2014	2015	2016	2017	2018	2022
Memorandum of Understanding between UP and ANFLOCOR was signed on Nov. 20 articulating ANFLOCOR's land donation and the establishment of UP PSAE on the said area	Memorandum of Agreement (MOA) between UP and ANFLOCOR was signed to formalize their collaborative endeavor in establishing UP PSAE	MOA between UP and ANFLOCOR was signed on Jan. 30 to symbolize the start of UP PSAE's physical development	The Academic Year 2017-2018, the first year of UP PSAE, will commence with off-campus offering of graduate programs. UP PSAE shall be under the leadership of its director, who will be reporting to the dean of the Graduate School. This set-up shall last for five years.	Starting Academic Year 2018-2019, short courses and trainings will be offered at UP PSAE.	Starting Academic Year 2022-2023, residential graduate programs will be added to UP PSAE's off-campus and short courses/trainings offerings. UP PSAE shall become a separate UPLB school to be headed by a dean.

Off-campus programs

From 2014-2017, UPLB has implemented eight off-campus programs to build a knowledge base right where the prospective students live and work and provide them opportunities to study without giving up their livelihood or local preoccupations. These programs are:

- MS in Entomology program in Panabo City, Davao del Norte in partnership with the ANFLOCOR
- MM Business Management for PS-DBM
- MM Cooperative Management for the National Confederation of Cooperatives
- MS in Mathematics with UP Cebu
- MS Development Management and Governance for the City of Cabuyao, Philippine Tourism Authority, and some local chief executives through the DILG
- MS Development Communication for the DOST, Taguig City
- MS Natural Resources Conservation for the DENR, the PTFC Foundation, Inc. and its partners agencies

Approved last March 2015, and implemented starting AY 2015-2016, UPLB is also offering an inter-CU program on Ph.D. in Development Studies, which is currently being hosted by UP Mindanao.



CHED Centers of Excellence

Eight UPLB academic units were awarded as CHED Centers of Excellence (COE) for exemplary standards in teaching, research and publication, extension, and linkages as follows:

- College of Agriculture and Food Science for agriculture
- College of Development Communication for development communication
- College of Forestry and Natural Resources for forestry
- College of Veterinary Medicine for veterinary medicine
- College of Arts and Sciences' Institute of Biological Sciences for biology; Institute of Computer Science for information technology; and Institute of Statistics (INSTAT) for statistics
- School of Environmental Science and Management for environmental science

The recognition was based on CHED's Memorandum Order No. 38 signed on November 23, 2015.

Meanwhile, the College of Engineering and Agro-industrial Technology - Department of Chemical Engineering was also identified as a CHED Center of Development (COD).

Renaming and restructuring of the College of Agriculture into the College of Agriculture and Food Science

After 107 years, CA was renamed into the College of Agriculture and Food Science (CAFS) along with the restructuring from a five-cluster to a nine-unit College as approved by the BOR at its 1323rd meeting on December 16, 2016.

The restructured CAFS revitalized four Institutes that were originally designated as National Centers of Excellence, namely: the Institute of Animal Science (IAS), the Institute of Plant Breeding (IPB), the Institute of Food Science and Technology (IFST), and the National Crop Protection Center (NCPC). The Postharvest Horticulture Training and Research Center (PHTRC) and the Dairy Training and Research Institute (DTRI) were also retained. Reorganized and renamed were the Agricultural Systems Institute (ASI), the Institute of Crop Sciences (ICrops), and the Institute of Weed Science, Entomology, and Plant Pathology (IWEP). The move improved the college's niche in transforming the country's agriculture towards inclusive and sustainable growth, linking and benefiting farmers in the value chain, and promoting product innovation and market diversification.

Globally competitive academic and research programs

International academic and research linkages

To further intensify UPLB's pursuit of global excellence, we entered into various agreements with 39 regional and international educational institutions in Asia, United States, Europe, Australia, and Africa including the reputable Chiba Institute of Technology, Universiti Malaysia Sarawak, Kyoto Prefectural University, Michigan State University, and Maejo University.

As a result of 34 MOU and 3 MOA on short-term study programs, study visits, and internships for students, 38 UPLB scholars were fielded to host institutions, while the university accommodated 36 visiting foreign students.

Twenty one new agreements led to collaborative capacity-building trainings for UPLB faculty members, and other collaborative research projects with six partner universities in the United States, Japan, Malaysia, and Mozambique.

These linkages also resulted to four graduate fellowships in Australia and Japan and short-term study programs for nine students of Japan NU's 2017 Global Social Responsibility Short-term Study Program between the said university and CEM's Department of Agribusiness Management and Entrepreneurship (DAME). There was also one sandwich program and conduct of a part of a thesis, all for UPLB students.

Through this global network, the UPLB Department of Economics welcomed a Japanese visiting professor, Prof. Kiyoshi Fujikawa of Kyoto University. Likewise, CAFS was able to assist Papua New Guinea's West New Britain Technical College by providing materials for curriculum preparation.

By significantly increasing our partnerships to a total of 104 in the span of just a few years, the Office of Institutional Linkages was transformed into the Office of International Linkages (as approved by the BOR at its 1319th meeting on July 28, 2016) to emphasize UPLB aggressive involvement in global network building.

Academic and research linkage

UPLB maintains linkages with more than 100 foreign and six Philippine institutions. These linkages include student and faculty exchanges, joint collaborative researches and conferences, exchange of materials, research linkages, scholarship programs, and conducting trainings and symposia. It hosts foreign exchange students and endorses students to partner universities abroad.

Poland
University of Warsaw

Germany
Philipps- Universität Marburg

The Netherlands
Wageningen University

Belgium
Universite Libre de Bruxelles

Czech Republic
Czech University of Life Sciences
Mendel University in Brno
Tomas Bata University in Zlin

Canada
University of British Columbia

United States of America
Colorado State University
Kansas State University
University of Florida
Texas A&M University
Michigan State University
North Carolina State University
University of Hawaii at Manoa
University of Hawaii at Manoa
College of Social Sciences & School of Communications
Oklahoma State University
Mississippi State University
Southern Illinois University Carbondale
University of Illinois

SEAMEO SEARCA
SEARCA University Consortium
Universitas Gadjah Mada, Indonesia
Institut Pertanian Bogor, Indonesia
Kasetsart University, Thailand
Universiti Putra Malaysia
Tokyo University of Agriculture, Japan
Georg-August University of Goettingen, Germany
University of British Columbia, Canada

TOKYO UNIVERSITY OF AGRICULTURE

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China

- Chinese Academy of Agricultural Sciences
- Guizhou University

Korea

- Catholic University of Korea
- Chonbuk National University
- Chonnam National University
- Chungnam National University
- Far East University
- Hankyong National University
- Kangwon National University
- Korea University - Sejong Campus
- Kyungnam University
- Kyungpook National University
- Pusan National University - College of Natural Resources and Life Sciences
- Korea-Asia Tourism Cultural Network (KATCN)
- Seoul National University

Japan

- Chiba Institute of Technology
- Chiba University
- Doshisha University
- Gunma Prefecture
- Hokkaido University
- Graduate School of Agriculture
- Houeï Group
- Junsei Educational Institution
- Kibi University
- Kobe University
- Kumamoto University
- Kurume University
- Kyoto University
- Kyoto University - Faculty and Graduate School of Economics
- Kyoto Prefectural University
- Nagasaki University
- Nagoya University
- Nagoya University Asian Satellite Campus
- Nagoya University - Graduate School of International Development
- Miyazaki University
- Obihiro University of Agriculture and Veterinary Medicine
- Osaka University
- Tokyo Metropolitan University
- Tokyo University of Agriculture
- Tokyo University of Agriculture and Technology
- University of Tokyo
- Saitama University

Turkey

- Kocaeli University

Russia

- Primorskaya State Academy of Agriculture

Spain

- University of Granada

Slovakia

- Slovak University of Agriculture in Nitra

Hungary

- Eötvös Loránd University

Liberia

- The University of Liberia

Laos

- National University of Laos

Thailand

- Kasetsart University
- Maejo University
- Ubon Ratchathani University
- Rajabhat Maha Sarakham University
- National Astronomical Research Institute of Thailand
- Silpakorn University
- Khon Kaen University
- Walailak University
- Chiang Mai University
- Sukothai Thammathirat Open University

Taiwan

- National Sun Yat-sen University
- National Taiwan University - College of Bioresources and Agriculture

Malaysia

- Universiti Malaysia Kelantan
- Universiti Putra Malaysia
- Universiti Sabah Malaysia
- Universiti Malaysia Sarawak

Papua New Guinea

- West New Britain Technical College

Mozambique

- Instituto de Investigação Agrária de Moçambique

Vietnam

- Hue University
- Nong Lam University
- Thai Nguyen University of Agriculture and Forestry

Cambodia

- Royal University of Agriculture
- University of Southeast Asia

Indonesia

- Ahmad Dahlan University
- Andalas University
- Maranatha Christian University
- Narotama University
- Universitas Gadjah Mada
- University of Jambi
- Universitas Machung
- Universitas Pelita Harapan
- Surabaya
- Institut Pertanian Bogor
- Sebelas Maret University

Australia

- Royal Melbourne Institute of Technology
- University of Queensland
- Australian National University

Notable students and graduates



Arnel B. Villancio, Jr.
BS Agriculture, *summa cum laude*,
and Class 2017 valedictorian



Paul Jhon Diezon
Honor graduate, campus leader,
Jose Rizal Model student

A CAFS graduate led the UPLB 2017 graduating class as *summa cum laude*, a feat, which was last achieved by the college 42 years ago. Arnel B. Villancio, Jr., was also only the 4th student in UPLB history to be in the company of luminaries Dr. Obdulia Fronda-Sison (1946), Dr. Clare R. Baltazar (1947), and Dr. Cielito F. Habito (1975).

Despite the rare achievement, the DOST and UP Presidential scholar maintains that his accomplishment was just a bonus. "It's more about reaching a level of proficiency for a bigger goal," says Arnel, who specializes in agricultural systems management.

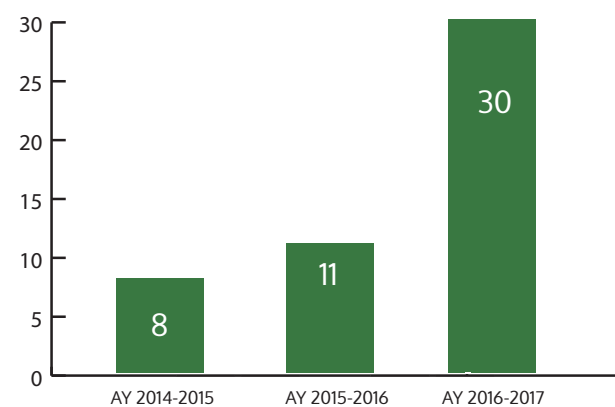
Bred in the spirit of the college, Arnel aspires to use his UPLB education to help improve the quality of lives of farmers and improve the Philippine agricultural sector. "Knowledge alone does not ensure that you can do something, but at least it's good that you have knowledge," he said. (JJSArana)

Paul believes that his accomplishment carries with it the responsibility to help the poor and the majority of Filipinos who are landless farmers. One of the Top 10 Jose Rizal Model Students of the Philippines (JRMSP) in 2016, Paul was a LGU scholar of Tuguegarao, Cagayan. In only his second year in UPLB, he clinched the prestigious UP Presidential Scholarship, and eventually earned his BS Biology, *magna cum laude*, in 2017.

Also a writer and a member of the CAS Student Council, Paul was recognized for his consistent outstanding academic and leadership performance throughout college. A resolute believer in the potential of the youth to bring about a brighter future for the country, he looks forward to *pagbubukang liwayway* (breaking of dawn), a phrase from his favorite scene in Rizal's *Noli Me Tangere*, which reflect the truly patriotic and inspiring character of one of UPLB's top graduates. (VADiستا, uplbosa.org)

Forty-nine students and student organizations received national and international awards, from 2015 to 2017, as a result of various enhanced student support programs of the Office of Student Affairs. Through the Screen/Select/Send UPLB Representatives to Programs and Awards Support System (SURPASS) and other monetary and advisory support of the Office of the Chancellor, students' participation in national and international conferences, competitions, and other programs improved by more than 250% since 2014. Notable young achievers include:

- John Derrick M. Ordonez, BS DevCom, became the first President of the ASEAN University Student Council Union
- Regional finalists, Ten Outstanding Students of the Philippines: Victorena II A. Diesta, Daniel Joseph N. Pisano, and John Paul F. Obias
- UPLB student organizations recognized as semi-finalists in the Ten Accomplished Youth Organizations of the National Youth Commission (Enactus UPLB and UPLB Genetics Society), and UNILAB's Ideas Positive (Team Proactive Kabilin, composed of UPLB Genetics Society, Philippine Association of Nutrition-Alpha Omega Chapter, and UP Community Broadcasters' Society)



Student participation in national and international conferences and programs, AY 2014-2015 to AY 2016-2017

Performance of UPLB in licensure examinations

The University consistently recorded high passing rates in 11 licensure examinations given by the country's Professional Regulation Commission. It also recorded a 100% passing rate in the examination given by the Industrial Engineering Certification Board.

100% passing rate in the licensure exams for foresters, nutritionists, and civil, electrical, and industrial engineers

90 topnotchers in licensure exams for agriculturist, forester, nutritionist, veterinarian, chemist, teacher, environmental planner, and agricultural, chemical, civil, electrical, and industrial engineers.

Top-performing school in the licensure exams for agriculturist, forester, veterinarian, chemist, nutritionist, and agricultural, chemical, and civil engineers for recording more than 80% passing rate in exams with 50 and more takers



Sirven C. Garibay, first place in the November 2016 civil engineering board exam



Roselle E. Madayag, first place in the October 2016 agriculturist board exam



Paul Alteo A. Bagabaldo, first place in the August 2015 nutritionist-dietitian board exam



EXAMINATION	DATE OF EXAM	TOP 10 PLACERS	NO. OF EXAMINEES	NO. OF PASSERS	PASSING RATE (%)	TOP PERFORMER?
Agricultural Engineering	August 2017	4	60	59	98.33	YES
Agricultural Engineering	August 2016	2,3,4,6,9	50	48	96	YES
Agricultural Engineering	August 2015	3	39	35	89.74	YES*
Agriculture	April 2017	3,5,5,5,6,7,8,9,10,10	29	28	96.55	N/A
Agriculture	October 2016	1,2,4,5,5,8,8,8,9	126	122	96.83	YES
Agriculture	June 2015	2,4,5,10,10	72	71	98.61	YES
Chemical Engineering	May 2017		36	32	88.89	YES
Chemical Engineering	May 2016	3,7	37	32	86.49	N/A
Chemical Engineering	May 2015	3,7	33	25	75.76	NO**
Chemical Engineering	November 2014	3,8,10	51	44	86.27	YES
Chemistry	October 2016	9,10	57	50	87.72	YES
Chemistry	September 2015		32	28	87.50	N/A
Civil Engineering	May 2017	3	26	25	96.15	N/A
Civil Engineering	November 2016	1	62	59	95.16	YES
Civil Engineering	May 2016	8	28	27	96.43	N/A

EXAMINATION	DATE OF EXAM	TOP 10 PLACERS	NO. OF EXAMINEES	NO. OF PASSERS	PASSING RATE (%)	TOP PERFORMER?
Civil Engineering	November 2015		59	57	96.61	YES
Civil Engineering	May 2015		10	9	90	N/A
Civil Engineering	December 2014		72	72	100	YES
Electrical Engineering	September 2017	4	30	30	100	N/A
Electrical Engineering	April 2017	2,3,5,7,8,9	36	36	100	N/A
Electrical Engineering	September 2016		21	21	100	N/A
Electrical Engineering	April 2016	7,8,9	36	36	100	N/A
Electrical Engineering	September 2015		20	20	100	N/A
Electrical Engineering	April 2015	7	12	12	100	N/A
Environmental Planner	June 2017		61	50	81.97	N/A***
Environmental Planner	June 2016	6	31	26	83.87	N/A***
Forestry	September 2017	2,6,8,10	137	136	99.27	YES
Forestry	September 2016	4,6,7,10	85	85	100	YES
Forestry	August 2015	3,5,7,9	85	85	100	YES
Nutrition	August 2017	2, 10	124	124	100	YES
Nutrition	March 2017	3,3,4,9,10	95	95	100	YES
Nutrition	August 2015	1,2,8,9,10	110	110	100	YES
Teacher (Elementary)	September 2016		2	2	100	N/A
Teacher (Secondary)	March 2017		39	38	97.44	N/A
Teacher (Secondary)	September 2016		42	41	97.62	N/A
Teacher (Secondary)	September 2015	10	39	38	97.44	N/A
Veterinary Medicine	August 2017	3,5,7	48	45	93.75	N/A
Veterinary Medicine	August 2016	8	50	45	90	YES
Veterinary Medicine	September 2015	5,6	52	49	94.23	YES
Industrial Engineering****	December 2016	8,9,12,13	18	18	100	N/A

*20 examinees, instead of 50, is the minimum number to be considered as a top-performing school
**30 examinees, instead of 50, is the minimum number to be considered as a top-performing school
***No top-performing school is declared under this examination
****Examination given by the Industrial Engineering Certification Board



Expanded scholarships and student support

Even in the past, UPLB has religiously supported students from low-income families through different forms of financial support. In addition to the Socialized Tuition System, loans and student assistantship are administered by the Scholarship and Financial Assistance Division of OSA. We also strengthened the Learning Resource Center to better manage the Agricultural and Rural Development Scholarship program. With the generosity of other partner institutions, we managed to help more than 1,500 students and families bear the cost of UP education.

Type of scholarship	AY 2014-2015	AY 2015-2016	AY 2016-2017
Government	145	780	284
Private	176	149	161
Total	321	929	445

Enhanced National Service Training Program (NSTP)

Under the management of the OVCAA, we were able to graduate 7,354 NSTP students. We were also able to secure serial numbers for NSTP CWTS and LTS graduates to officially assign them as military reservists similar to their ROTC counterparts, a modest accomplishment for UPLB, which did not have these codes since NSTP was implemented in 2001.

UPLB was able continually improve enrollment in the ROTC component. In 2016, the UPLB cadets became the Regional Annual Administrative and Tactical Inspection (RAATI) champion.

Realizing the utility of LTS and CWTS components of NSTP as values formation and public service programs, UPLB systematized the conduct of the field work requirement of NSTP into needs-based community engagement to match community needs with UPLB's public service capacities. It also utilized the UPLB Ugnayan ng Pahinungod to coordinate and monitor college-based NSTP projects as mechanisms to facilitate strategic, relevant, and sustainable initiatives, particularly for public schools and communities in the UPLB vicinity.

Stable corps of eminent educators, REPS, and support staff

Faculty development

Faculty members, who comprise more than a third of the University's workforce and are expected not only to teach, but also to conduct research and public service, are the backbone of UPLB. As such, we endeavored to broaden support mechanisms to enhance their knowledge, skills, and leadership capacities in performing the three principal functions of UP as a higher education institution and national university. These mechanisms included merits and incentives in the forms of new grants, awards, and recognitions.

Graduate Faculty Conference

The Graduate Faculty Conference on February 15-16, 2015 at the Tagaytay International Convention Center served as the opening salvo in a series of timely and relevant knowledge sharing activities that we have been holding since then. It was attended by 188 administrators and graduate faculty members.

The Conference tackled the importance of internationalization and the factors that have been shaping UP's internationalization agenda, namely: the UP Charter of 2008 and the ASEAN Integration 2015. Internationalization is transforming UPLB's graduate education, institutional and research collaborations, and public service programs.

Seminar on College Teaching

All newly hired faculty members, new teaching associates, and research, extension, and professional staff (REPS) who are given teaching loads attend the week-long Seminar on College Teaching (SOT). SOT is a bi-annual activity that seeks to enrich the teachers' praxis on teaching and learning by enhancing their knowledge on effective pedagogies and encouraging them to be innovative and creative educators. It also familiarizes them with the programs, policies, and available facilities for effective and efficient teaching at UPLB.

From January 2015 to July 2017, or in six semesters, UPLB has trained 251 new teachers.

On June 13, 2017, the OVCAA conducted the very first post-assessment/assessment of the seminar with 28 of the 50 participants from the 76th offering of the seminar as respondents.

Academic Leadership Conferences

Perhaps the biggest and most well-attended faculty conference that we have conducted is the ALC, an offshoot of the same event conducted in March 2015 by the UP System for administrators of all constituent universities. It gathered 341 faculty members in its two separate runs: ALC I at the Subic Bay Freeport Zone in Olongapo City, Zambales in 2015 and ALC II at Clarkfield, Pampanga in 2016.

The ALC emphasized the importance of leadership and governance in transforming UPLB into a globally competitive graduate and research university. The Conference discussed the latest trends and reiterated timeless paradigms in pedagogy, curriculum development, mentoring, research, publishing, public service, and leadership.

Higher Education Administrators' Development Seminar (HEADS)

We brought 35 heads of academic and administrative units to a knowledge sharing activity that bore an appropriate title: HEADS, which stands for Higher Education Administrators' Development Seminar.

Managerial knowledge and skills aligned with the University's academic, public service, and administrative functions were the focus of the seminar. HEADS was held on June 7-9, 2016 at the Shercon Resort and Ecology Park in Mataas na Kahoy, Batangas.

Honing Innovative Teaching Skills Seminar (HITSS)

We enriched and updated the skills and instructional methodologies of 47 faculty members so that they could better meet the learning needs and habits of this generation's learners called "millennials" during the seminar (HITSS), on Jan. 16-18, 2017 in Malvar, Batangas.

We revisited the psycho-social profile of the millennials through the talk of Dr. Grace Aguilung-Dalisay, former dean of the UP Diliman College of Social Sciences and Philosophy and a developmental psychologist.

Higher Education Assessment for Relevance Towards Sustained Institutional Excellence (HEARTS)

Exactly one year after the success of HEADS, we gathered 85 academic and administrative leaders of UPLB to a knowledge sharing activity called HEARTS, or the Higher Education Assessment for Relevance Towards Sustained Institutional Excellence: An Orientation. HEARTS was held on June 7-8, 2017 at the Development Academy of the Philippines in Tagaytay City.

HEARTS served to prepare UPLB heads for upcoming program and institutional assessments. UPLB is one of 11 Southeast Asian universities to take part in an institutional assessment through the European Union Support to Higher Education in the ASEAN Region (EU-SHARE).



Higher Education Administrators' Development Seminar (HEADS)



Higher Education Assessment for Relevance Towards Sustained Institutional Excellence (HEARTS)

Establishment of Academic Development Fund

Forty grants for oral paper presentations were given to 37 academic personnel (33 faculty members and four REPS) under the ADF from 2015 to 2016. Twelve of these grants were given in 2015, while 28 were awarded in 2016.

ADF provides financial assistance of not more than US\$500 to academic staff for oral paper presentation in international conferences.

The ADF was also granted to cover page fees for publication of articles in ISI-listed journals and attendance in specialized training programs abroad. One faculty member was granted the page fees for publication of a food engineering study, while two received training on engineering and biotechnology in China and Thailand, respectively.

Increased Study Leave Provisions

Forty-four faculty members have benefited from scholarship grants, in particular, the CHED local and foreign scholarships and the Instruction, Research, and Sectoral Engagement Grant, under the K to 12 Transition Program.

Of the 32 recipients of full local scholarships, 20 faculty members are pursuing their Master of Arts (MA)/Master of Science (MS), major in social sciences, communications, and arts and letters. The remaining 12 are enrolled in Doctor of Philosophy (Ph.D.) degrees in various disciplines and Doctor of Communication (DComm). Most of the 12 who received thesis and dissertation grants are MS students. Four faculty members were granted partial support for Foreign Doctoral Studies.

Interactive Learning Training-Workshops

The Interactive Learning Center (ILC) conducted three training-workshops on e-learning trends and development and on packaging of interactive learning materials among faculty members to promote the use and development of these materials in teaching environments. The trainings were held on July 25-29 2016, Dec. 12-16, 2016, and Jan. 9-13, 2017 for at least 40 faculty members with a series of related seminars as part of continuing efforts to improve instruction through technological innovations.



REPS Development

Recognizing the critical role of REPS in the holistic development of a truly globally competitive research and public service university, we introduced policy changes for the welfare and development of UPLB REPS.

REPS' interim guideline on tenureship

With the Policy on the Renewal of Appointment and Tenure of REPS officially suspended, we worked to fill the lapse by drafting the 2015 Interim Guidelines for the Tenure of UPLB REPS. Approved by the BOR in 2016, the policy paved the way for the tenureship of 31 deserving REPS.

In addition, we organized the UPLB Ad Hoc Committee to Review the Policies and Guidelines on the Appointment and Workload of REPS, which conducted a series of dialogues and consultations with REPS on issues such as tenure, promotion, workload crediting, and other REPS concerns.

REPS promotion

Fifty-eight (58) UPLB REPS were promoted between 2015 and 2017.



To further address the REPS' concerns, we organized the following:

- Created the UPLB Ad Hoc Committee to Review the Policies and Guidelines on the Appointment and Workload of REPS
- Conducted a series of dialogues and consultation meetings with UPLB REPS to hear issues on tenure, promotion, workload, and other REPS-related matters
- Endorsed the REPS Promotion Guidelines to the Office of the President (June 2016)
- Appointed REPS with teaching assignments as Affiliate Faculty
- Improved on the REPS Workload Guidelines and the REPS Service Records Template (Form 67a)
- Developed the Individual Performance and Commitment Review (IPCR) Equivalencies
- Encouraged the active participation of REPS in associations such as the UP Society of Research, Extension and Professional Staff (UP REPSS)

(From L to R) UP Staff Regent Alexis Mejia (1st), Asst. Vice Chancellor for Research and Extension Susan Calumpang (3rd), former UP President Emil Q. Javier (5th), and Vice Chancellor for Research and Extension Rex Demafelis (6th) join the officers and members of the REPS during its 4th Annual Scientific Conference and 8th General Assembly held on March 15-17, 2017 in Lucban, Quezon.

UP REPSS has staged four conferences to date:

1st UP REPSS Annual Scientific Conference and 5th General Assembly Meeting

March 27-28, 2014
ICOPED Auditorium, CEM
Theme: The Role of Research, Extension and Professional Staff in National Development

2nd UPREPSS Annual Scientific Conference and 6th General Assembly Meeting

March 26-27, 2015
Tagaytay International Convention Center
Theme: Promoting Interdisciplinary Partnership Towards National Development

3rd UP REPSS Annual Scientific Conference and 7th General Assembly Meeting

March 29-30, 2016
Estrellas de Mendoza Playa Resort, Laiya, San Juan, Batangas
Theme: Enhancing REPS Capabilities for ASEAN Integration

4th UP REPSS Annual Scientific Conference and 8th General Assembly Meeting

March 15-17, 2017
Batis Aramin Resort and Hotel, Lucban Quezon
Theme: REPS Responding to the Challenges of Sustainable Development Goals

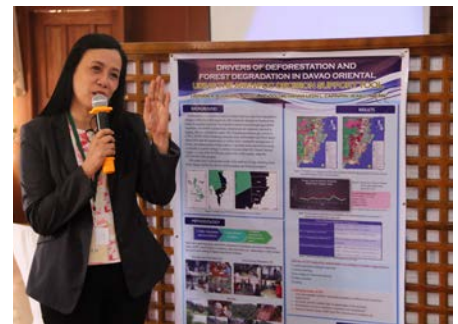
Increased support to REPS activities

The UP REPSS is a SEC-registered professional organization with 338 members from UPLB as of February 2017. The organization recognizes the important role that REPS play in achieving UPLB's vision and their pursuit of scientific, economic, social, and political developments through the promotion of science, technology, and the arts in the country.

We supported the holding of REPS conferences to provide a forum for its members to present creative works in research, extension, and professional services. Members of the Society gained information not only of the research and extension activities of UPLB but also from outside sources through keynote and plenary presentations of invited speakers from within and outside UP.

Advocating the release of benefits for UPLB Scientists

Support for our REPS even extended beyond UPLB matters. We constituted the UPLB Scientific Career Evaluation Committee, which proposed the regular inclusion of the incentives and benefits of UPLB Scientists in the budget of UPLB to the Department of Budget and Management. We are now finalizing the guidelines for the eventual release of these benefits pursuant to Republic Act 8439, or the Magna Carta for Scientists, Engineers, Researchers, and other Science and Technology Personnel in Government.



Personnel Retention

Faculty, professorial, and research grants

Different incentives are in place to encourage faculty members to become more productive and to continuously serve the University. These come in the forms of faculty, professorial, and research grants given to selected faculty members with outstanding achievements in teaching, intellectual productivity, and service to the University and the larger community.

One UP Professorial Chair

The 2016-2018 One UP Professorial Chair Awards and One UP Faculty Grant (FG) Awards were approved by the UP BOR at its 1309th Meeting on July 22, 2015. These competitive grants aim to recognize those who have demonstrated outstanding performance in two out of three work areas of a UP faculty member: teaching, research/creative work, and public service.

Of around 800 slots that were opened for the entire UP System, 177 went to UPLB faculty members. A total of 108 associate and full professors were awarded with the One UP Professorial Chair, entitling them to Php 10,000 monthly for three years. Meanwhile, 69 other faculty members qualified for the One UP FG. They will receive Php 8,000 every month for three years.

UPLB Centennial Faculty Grant

Thirty-seven (37) awards under the UPLB Centennial Faculty Grant were given to 38 faculty members from AY 2014-2015 to AY 2016-2017. Various teaching materials, majority of which were manuals, and new and revised lecture syllabi, were produced.

UPLB Centennial Professorial Chair

Meanwhile, 21 UPLB Centennial Professorial Chair grants were awarded to 28 faculty members from AY 2014-2015 to AY 2016-2017.

UPLB-wide Professorial Chair

Twenty-two (22) faculty members from eight (8) colleges were awarded professorial chair grants in AY 2014-2015 and AY 2016-2017. These grants were the Metro Manila Commission, Diamond Jubilee, San Miguel Corporation, Philippine National Oil Company, CARD-MRI, Bangko Sentral ng Pilipinas, Laguna Water District, UPLB Alumni Association, Guillermo Ponce, Dianne Leiberman, and the Apolinario and Esmuela Carangal Professorial Chairs.

Promotion and Filling Up of Positions

We filled up 83 new faculty items from 2015 to 2017 in fields that needed the additional human resource. Meanwhile, we promoted 58 REPS from various units during the same period. Thirty-two (32) of them were from the research sector; 18 from the extension sector; and the remaining eight from the professional services sector.

In accordance with Administrative Order No. PDLC 17-28, we requested the Office of the University President to allow us to fill up vacant plantilla items according to the needs of the units. Under request are 66 plantilla positions from units such as CAS, CAFS, CVM, CFNR, OAR, UPMO, and UHS. Filling up these positions will help in the delivery of enhanced and efficient services.



Stepping on bigger stages of knowledge sharing: Dr. Editha C. Jose, faculty grants and professorial chair recipient

Dr. Editha C. Jose, assistant professor and deputy director of the Institute of Mathematical Sciences and Physics, received the UPLB Centennial Faculty Grant in AY 2014-2015, two UPLB Academic Fund (ADF) Grants in 2015 and 2016, and the UPLB Diamond Jubilee Professorial Chair Award in AY 2016-2017.

Thanks to the UPLB Centennial Faculty Grant, Dr. Jose was able to write "Logic and Set Theory: A Worktext in MATH 101 (Volume 1)." It is now regularly used as a reference in one of IMSP's major courses.

Through the financial support from the UPLB ADF, she was able to present her paper in international events: the 8th International Congress on Industrial and Applied Mathematics in China in 2015 and the Asian Mathematical Conference in Indonesia in 2016. These have given her valuable exposure to the latest developments in her chosen field.

On the other hand, having been awarded with the UPLB Diamond Jubilee Professorial Chair Award allowed her to share the fruits of her research in homogenization theory and controls of partial differential equations. Her noteworthy performance in instruction, research, and extension as a faculty member earned for her the coveted professorial chair.

"This kind of award and recognition boosts my commitment to serve the University, the country, and the people," she said. This boost, in fact, is reflected in her teaching excellence as she bagged the 2017 UPLB Outstanding Teacher for Physical Sciences Award.

As she continues to advocate for quality math education, Dr. Jose herself has been a prime mover in setting the stage for others to share what they know through training programs, most recently through the MATHTEX 2017 Teacher Training on Calculus and the International Summer School on Multi-scale Analysis Methods and Applications. (AGB Peralta)



New recipients of the UP Scientist Award in 2016: (Front, L-R) Jose M. Yorobe, Jr., Carmelita M. Rebancos, Celia DR. Medina, Wilma A. Hurtada, Decibel F. Eslava, and Agnes C. Rola, and (Back, L-R) Ramon A. Razal, Bing Baltazar C. Brillo, Dennis V. Umali, Felino P. Lansigan, and Luis Rey I. Velasco

Awards and Recognition

UP Scientist Award

Instituted in UP last August 2005 to support the development of science and technology and to encourage and reward scientific productivity, the UP Scientist award is now one of the more prestigious awards in UP. From 2014-2016, 46 UPLB faculty were conferred the status of UP scientists.

26 UP
Scientist I

13 UP
Scientist II

7 UP
Scientist III

41%

of UP Scientist appointments
awarded in 2016 in the entire
UP System are from UPLB

UP Scientist I

2016
Dr. Marvin A. Albao (renewed)
Dr. Nathaniel C. Bantayan
Dr. Bing Baltazar C. Brillo
Dr. Josefina T. Dizon (renewed)
Dr. Decibel Faustino-Eslava
Dr. Wilma A. Hurtada
Dr. Celia DR. Medina
Dr. Carmelita M. Rebancos
Dr. Dennis V. Umali
Dr. Luis Rey I. Velasco
Dr. Jose M. Yorobe, Jr.

2015
Dr. Damasa M. Macandog

2014
Dr. Rowena dT. Bacongus
Dr. Orville L. Bondoc
Dr. Barbara L. Caoili
Dr. Ma. Genaleen Q. Diaz
Dr. Aimee Lynn Barrion-Dupo
Dr. Ma. Victoria O. Espaldon
Dr. Edwino S. Fernando
Dr. Leonardo M. Florece
Dr. Pablito M. Magdalita
Dr. Merlyn S. Mendiore
Dr. Pablo P. Ocampo
Dr. Vachel Gay V. Paller
Dr. Nelson M. Pampolina
Dr. Maria Ana T. Quimbo

UP Scientist II

2016
Dr. Wilfredo M. Carandang (renewed)
Dr. Francisco B. Elegado (promoted)
Dr. Felino P. Lansigan
Dr. Teodoro C. Mendoza (promoted)
Dr. Ramon A. Razal
Dr. Agnes C. Rola
Dr. Renato SA. Vega (promoted)

2015
Dr. Victor B. Ella

2014
Dr. Menandro N. Acda
Dr. Nestor T. Baguion
Dr. Virginia C. Cuevas
Dr. Juan Carlos T. Gonzalez
Dr. Virginia R. Ocampo

UP Scientist III

2016
Dr. Jezie A. Acorda (renewed)
Dr. Pompe C. Sta. Cruz (renewed)

2015
Dr. Inocencio E. Buot, Jr.
Dr. Rex Victor O. Cruz,

2014
Dr. Christian Joseph R. Cumagun
Dr. Ireneo L. Lit, Jr.
Dr. Juan M. Pulhin

Outstanding personnel

It has been UPLB's tradition to recognize its outstanding teachers, research and extension personnel and teams, professionals, and administrative staff during the annual foundation day celebration every March.

Sixteen faculty members were hailed as outstanding teachers; 13 faculty members and REPS were recognized as outstanding researchers; two REPS were named as outstanding extensionists; three faculty members as outstanding artists; 14 as outstanding administrative personnel; and five teams and programs as outstanding research and extension teams.

Other awards

Our personnel also continued to reap recognitions outside the University. Nineteen faculty members, researchers, and an administrative staff bagged local, national, and regional awards, while five faculty members and researchers were awarded international honors.



Patience personified: Paciencia M. Dela Peña

2017 Outstanding Office Personnel

It takes patience to organize, consolidate, and analyze data that date a number of years back, but for the Office of the University Registrar (OUR), it took a worker coincidentally named "Paciencia" to do just that.

Through painstaking examination of unwieldy data, she tracked accumulated unpaid matriculation fees and helped UPLB to collect more than a million pesos from individuals and organizations that had sent scholars to the University but missed to fulfill their commitment.

Paciencia's patience in dealing with voluminous data has also led her to convert hard files into electronic databases of UPLB graduates, scholarships, curricular proposals, and even of students who were not able to finish their studies. These innovations boosted the operational efficiency at the OUR and helped her officemates accomplish their work faster.

Imagine obtaining information in 31 seconds what used to require five minutes to retrieve. Paciencia's patience indeed helped spare her officemates' and their clients' patience from being tested. (KE Araguas)



Promoting a balanced approach to teaching and learning: Vachel Gay V. Paller

2016 Outstanding Teacher for Biological Sciences

There is balance in everything, between parasites and their host organisms – humans, animals, and the environment. Dr. Paller aims to emphasize this balance through "environmental parasitology," a special topic she has developed for a graduate course in zoology.

Dr. Paller applies the principle of balance in ensuring that her students will really learn. That is why aside from various teaching strategies inside the classroom, she brings her students to laboratories, symposia, and actual research settings.

Dr. Paller also strives to strike a balance in performing her roles as a faculty member. As a researcher, she has led six projects, published 18 scientific and technical publications, and authored a book chapter, monograph, and laboratory manual. On top of these, she heads the Animal Biology Division of the Institute of Biological Sciences. (MC Jadina)



Scientist-couple Mario and Cel Navasero: Back-to-back 'Dangal ng Bayan' awardees

Power couple? Yes, this husband and wife team may be labeled such for the contributions they have made to crop protection, but never in the sense of wielding influence.

Mario and Cel Navasero, entomologists who have explored the complexity of insect systematics, biological control, and pest management, both hold Scientist designations, the highest that government-based science personnel could ever reach.

The scientist-couple, together with some colleagues, fought for the use of a safe and effective way to combat the infestation of Coconut Scale Insect or CSI (*Aspidiotus rigidus* Reyne) in coconut plantations in the country in 2014. This is through the use of the encyrtid parasitoid *Comperiella* sp., possibly a new species that they co-discovered, which parasitizes adult CSI leading to the latter's non-reproduction and ultimate death.

Their science-based and environment-friendly advocacy of eliminating CSI amid opposition, matched by their equally impressive academic and public service credentials, made them stand out among the civil servants of CALABARZON. In 2015, Mario was named as Civil Service Commission's (CSC) "Dangal ng Bayan" awardee in the Region. The year after, Cel bagged the same distinction. Mario emerged as a national winner. "Dangal ng Bayan" is "conferred to an individual for performance of extraordinary act or public service and consistent demonstration of exemplary ethical behavior on the basis of his/her adherence to the Code of Conduct and Ethical Standards for Public Officials and Employees."

Through all these achievements, Mario and Cel remain humble and modest in their pursuit of advanced, relevant, and practical entomological research. (MJE Gloria)



The physicist is back in the Philippines: Dr. Ivy Razado Colombo, Balik-PhD faculty member

Dr. Ivy Razado Colombo lived the life of a scholar and scientist in Europe for 16 years. She took and finished her MS and PhD in Materials Physics in Sweden, and worked as a researcher and teaching assistant, and as a postdoctoral researcher at the Linköping University from 2000 to 2009.

She also did stints as a four-time postdoctoral researcher from 2009 to mid-2016 in France exploring the world of physics down to its “nano” realm. In September 2016, she did find her way back home, and resumed her teaching career at the UPLB Institute of Mathematical Science and Physics (IMSP).

“I think it’s a way of giving back to UP, where my interest for science and technology was molded,” said the BS Applied Physics alumna of UPLB. “I learned that research has significantly improved here in the Philippines. It’s time for me to impart the fundamental and applied concepts, skills, and experiences I have acquired abroad specifically in the field of materials physics. In particular, I would like to contribute in strengthening the materials science research here in the Philippines.”

Dr. Colombo looks forward to working with experts in agriculture, forestry, and chemistry in materials science research. “No man is an island. We need each other to fulfill our mission. We should have a multidisciplinary approach in research,” she said.

She aims to explore the potential of synthesizing two-dimensional dielectric materials such as hexagonal boron nitride that can be used to miniaturize electronic devices. She will work with research partners in France, Japan, and the Philippines in the synthesis and characterization of the materials. (MJEGloria)

Balik-Ph.D. Program

To improve our faculty profile by attracting Filipino Ph.D. and postdoctoral fellows abroad to return to the country and teach at UP, we welcomed five new scholars under our “Balik-Ph.D.” program.

They are given a research grant, appropriate faculty rank, and relocation package as they embark on an academic career in the University.

UPLB’s Balik-Ph.D. faculty members from 2015 to 2016 are the following:

Dr. Remil L. Galay
CVM (2015)
Ph.D. Veterinary Science
Yamaguchi University, Japan

Dr. Ivy R. Colombo
CAS-IMSP (2017)
Ph.D. Material Physics
Linköping University, Sweden

Dr. Allan Abraham Padama
CAS-IMSP (2015)
Ph.D. Physics/Engineering
Osaka University, Japan

Dr. Jenielyn T. Padrones
CFNR (2017)
Ph.D. Resource Science
Akita University, Japan

Dr. Patricia Ann Jaranilla-Sanchez
SESAM (2016)
Ph.D. Civil Engineering
University of Tokyo, Japan



UP Graduate Mentoring and Apprenticeship Program (GMAP)

Aimed to help generate graduates with distinctive expertise in their respective fields through effective mentoring by seasoned faculty and researchers in appropriate instruction and research settings, the GMAP also served as a mechanism to develop a pool of qualified potential faculty members for the University.

A total of 125 applications for the GMAP were approved, 95.20% of which were given to masteral students, and 4.8% to doctoral candidates. Approximately PhP 2.1 million has been disbursed to cover the monthly salaries of the GAs, and a total of PhP 840,000 was availed of for 100% matriculation discounts. Sixty-five (65) faculty members served as mentors to these Graduate Apprentices (GA).



Teaching Assistantship (TA) Program

As we continued to espouse the practice of progressive mentoring, UPLB also employed TAs who were mentored by senior faculty members. Recipients were part-time master's students who were given graduate scholarship and stipend and assigned up to 6 units of undergraduate teaching load. Upon their graduation, performance evaluation, and availability of positions, these scholars may be hired as regular faculty members.

Aside from mentoring prospective faculty members, the TA program also augments UPLB's teaching work force and allows qualified faculty members to go on study leaves to pursue advanced degrees and other faculty development opportunities.

Since the 1st Semester of AY 2015-2016, a total of 14 TAs have qualified in this UP System-wide Program called UP Teaching Assistantship Program.



Productive scholars, promising teachers: Teaching associates Paul Alteo A. Bagabaldo and Marjorie Anne A. Layosa

It is not surprising that after earning their BS Nutrition degrees in 2015, Paul and Marjorie were offered teaching associate (TA) positions by the Institute of Human Nutrition and Food (IHNF). After all, they are both honor graduates and topnotchers in the nutritionist-dietitian board exam.

Three semesters as TAs have built up their confidence as teachers. With the mentorship of their professors, knowledge gained from studying for their MS in Applied Nutrition, research work, and the appreciation of their students, Paul and Marjorie know that they have made the right decision in accepting the offer.

"Knowing that after this program, I will be able to achieve my master's degree and possibly find more opportunities, has encouraged me to become a TA," Paul said. Marjorie, on the other hand, said that her professors inspired her to apply in the TA Program. "I wanted to be like them and become an inspiration to students," she confided.

"I think the TA Program is a very good program for fresh graduates who are eyeing careers in the academe. The training is really fit for future faculty members," Marjorie said. "It will give you ample time to decide on what to really pursue; you have the time to think; and the faculty members will guide you," Paul introspected. (MJE Gloria)

Holistic educational development through the culture and the arts, and sports

Promoting creative teaching

UPLB continued to serve as an active partner of *Malikhaing Guro* International Conference for Culture-based Education, a unique venue for collaboration among formal institutions, environmental advocates, development workers, government organizations, and artists to reinvigorate our local cultural heritage.

UPLB participated in three *Malikhaing Guro* activities in July 2015, September 2016, and July 2017. Notably, three UPLB faculty members presented papers in creative teaching paradigms: Dr. Susan Aquino Ong (CAFS), Assoc. Prof. Alleli Esther Domingo (CAS), and Asst. Prof. Romeo Dela Cruz, Jr. (CAS), respectively. A total of 1,900 participants joined the event from 2015 to 2017.

Fusion of the Arts and Sciences

Aside from promoting excellence in teaching and practice in arts and sciences as separate fields, we ventured into dramatic initiatives fusing otherwise distinct domains to enrich the cultural teaching-learning process in the University. We accomplished this through the institutionalization of the Fusion of the Arts and Sciences Program and enhanced support for the Office of Initiatives for the Culture and the Arts, which resulted to the following activities:

Sculptures and exhibits

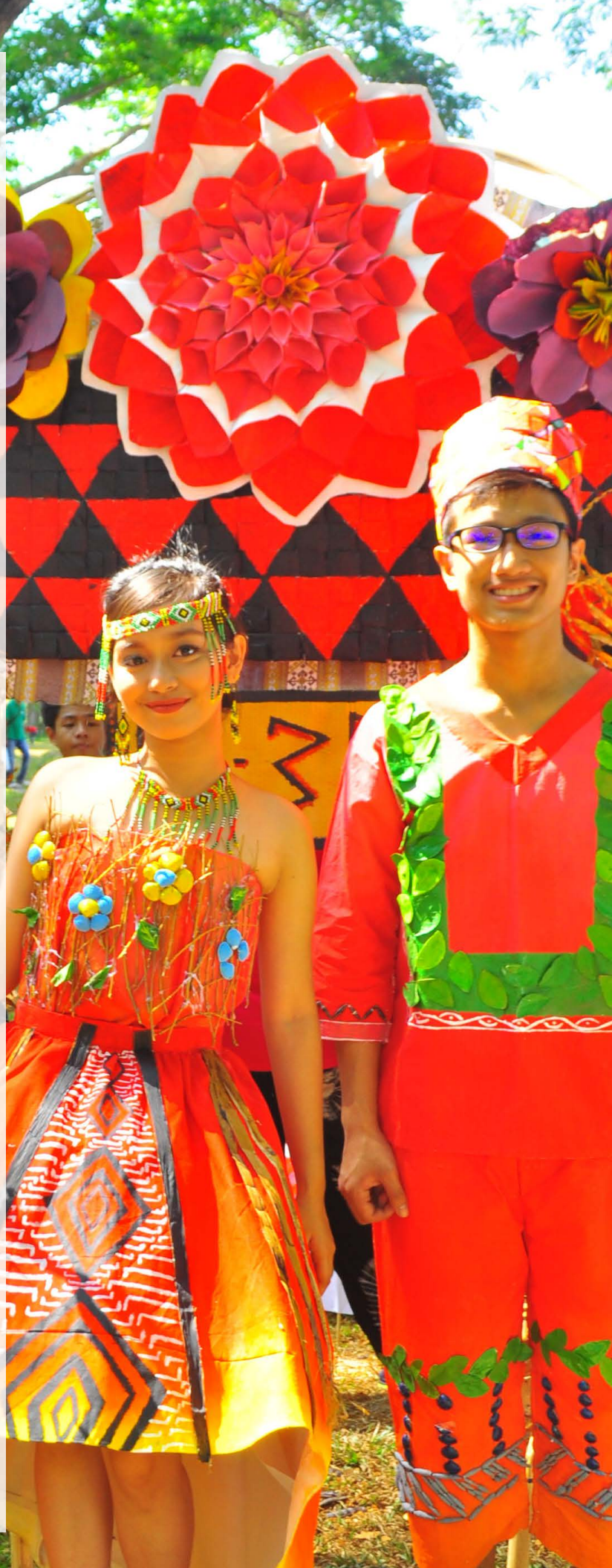
- *Sungkaan*: On-site sculpting of a huge *sungka* out of a fallen narra (Nov. 2014)
- *Lilok. Laro. Tugtog*. A resource-based woodcarving and bamboo instrument exhibit (Nov. 2014)
- "Herding Islands, Rats, and the Anthropocene" exhibition: support to familiarization and tour workshop (Nov. 2015)

Symposia and talks

- "Integration and Development": attended by 50 artists, scientists, social scientists, community members, and students (Nov. 2015)
- "Artist Talk on Sound Design": Brad Milton Ward, a multi-awarded American sound designer's seminar on the "Vocabulary of Sound" (Feb. 2016)
- "Research Café on Digital Cultural Planning" (March 2016)
- "Creative Intervention Amongst Students at Risks" (Apr. 2016)

Festivals and parades

- "*Sining Laboratoryo* (SI-Lab): Los Baños Experimental Arts Festival; An arts festival for student organizations (March 2016)
- "Flores de Los Baños": An advocacy-themed "santacruzán" parade showcasing the endemic and hybrid flowers of Los Baños by HUM 2 students (Apr. 2016)





Mga Malikhaing Guro: Dr. Susan Aquino Ong from CAFS (left), Assoc. Prof. Alleli Esther Domingo from CAS (middle, picture from Bato Balani Foundation, Inc.), and Asst. Prof. Romeo Dela Cruz, Jr. from CAS (right)

**Layeta Bucoy:
Enriching the UPLB arts**



UPLB is generally known for its strength in the sciences. Its rich biodiversity and leadership in agriculture research has made it a popular destination for many researchers and scientists. Another fact about the University, though less known yet equally impressive, is its thriving arts scene. From music to visual arts to comics, novels and theater, all are thriving in UPLB's lush green campus.

One strong example of this is Prof. Layeta Bucoy, an associate professor at the Department of Humanities. Prof. Bucoy teaches Philippine literature, playwriting and popular literature and her students can be rest assured, their professor definitely knows what she is talking about.

Theater arts enthusiasts and frequent theater goers would recognize her name, whether from a play staged in UPLB or from one they watched at the Cultural Center of the Philippines.

Prof. Bucoy has won 5 Palanca awards, the latest of which was for her one-act play "The Adopted Healthy Baby" in 2015. Her previous works recognized at the Palanca Awards include the teleplay "Ang Repleksyon ni Miss Trajano" (1998); the Filipino one-act plays "Ellas Inocentes" (2007), "Doc Resurreccion: Gagamutin ang Bayan" (2009), and "El Galeon de Simeon" (2011).

She has written for Tanghalang Pilipino, Dulaang Unibersidad ng Pilipinas, and the Philippine Educational Theater Association. Many of her plays have been featured in the Virgin Labfest, an annual festival of untested and unpublished plays. Her plays "Si Dr. Dolly at ang mga Ladybugs" and "Uod, Butete at si Myrna" were featured in the festival in 2017 and 2016, respectively.

Her recent works include "Coro de los Diablos," an adaptation of "Lord of the Flies" for UP Dulaang Laboratoryo in 2015, "Prinsipe Munti" an adaptation of the Little Prince for Tanghalang Pilipino in 2016, and Princess Lilli, which retells the life of Lilliosa Hilao, a Martial Law martyr.

She was conferred the title UP Artist III in 2016 for her outstanding productivity in creative writing and was recognized by the UPLB Alumni Association as a distinguished alumna for creative writing in 2013. Prof. Bucoy is also a member of Writer's Bloc, an independent organization of established and aspiring playwrights. (JJSArana and JLRRoble III)



Chancellor Fernando C. Sanchez, Jr., CAS Dean Felino Lansigan, and Atty. Filemon Nolasco unveil the marker symbolizing student activism.

Renaming of Humanities steps to honor Martial Law desaparecidos

As homage to UPLB martyrs and UPLB's historic role in national events, the steps at the UPLB Humanities Building was formally named *Hagdan ng Malayang Kamalayan* as an icon of activism in UPLB particularly during the Martial Law period.

The renaming was done last March 9, 2017 through the installation and unveiling of a bronze marker designed by UPLB alumnus Manny Garibay and crafted by artist Lito Madejar. The marker honors the memories and deeds of UPLB Martial Law victims and activists and serves as an inspiring reminder to a new breed of scholars.

Culture and the arts activities in UPLB

Through the OICA, we continued to provide avenues for expression and exploration of the Filipino cultural traditions and arts with the following activities, which have been integrated as part of the regular UPLB calendar:

National Arts Month in February

An arts festival to celebrate the National Arts month, activities included artist workshops in music, visual arts, and performance arts and the *Sining-Laboratoryo* (Si-Lab), an alternative platform where up and coming artists and scientists were able to present new works and creative outputs.

Pamana

Held during the Southern Luzon Eco-Heritage Arts Festival and the Southern Tagalog Traditional Arts Festival, Pamana featured workshops and performances from local and international artists. Among the featured artists and organizations were the UPLB Filipiniana Dance Troupe, UPLB Writers' Club, UP Broadway Company, the Cultural Center of the Philippines, Philippine Philharmonic Orchestra, ABS-CBN Philharmonic Orchestra, and the Orchestra of the Filipino Youth.

For 2017, OICA also co-hosted the ELBIKon 2017, a comics and literature convention of Los Baños artists organized by the Graphic Literature Guild of UPLB and co-sponsored "AGRA: A New Musical," which utilized musical theater to promote the value of agriculture to high school and college students. It also organized a concert of the Philippine Madrigal Singers.

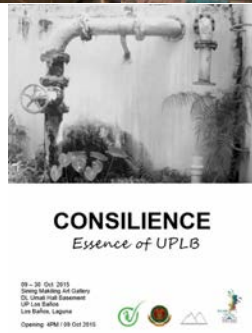


"Artistic Hands, Scientific Minds" features the artworks of Dr. Augusto C. Sumalde (left) and Dr. Constancio C. de Guzman (right, 2nd from the left), two agriculture professors in UPLB.

Exhibits at Sining Makiling

OICA hosted sixteen exhibits at the Sining Makiling Gallery:

- OUSIA, by various artists (September-October 2014)
- Labing Isang Daliri, by UP Painters' Club (October 2014)
- GINHAWA: Disaster, Art, Hope, by various artists (November-December 2014)
- New Breed, by Philippine High School for the Arts Visual Arts Students (February 2015)
- To think about a brushfire, featuring Christian Tablazon (March-April 2015)
- BADONG: Salvador Bernal Designs the Stage, featuring National Artist for Theater Design Salvador Bernal (April-June 2015)
- Lamon, featuring Marc Vincent Cosico (August 2015)
- Genus Loci: Spirit of Los Baños, by various artists (September-October 2015)
- Consilience, featuring art and poetry by various artists (October 2015)
- Herding Islands, Rats and the Anthropocene Multi-Media Art Exhibit, curated by Romeo B. dela Cruz, Jr. with Christian Tablazon and Srimivas Aditya Mopidevi (November 2015)
- OIRAN Nude Study with Doidalsas and Isoceles by Jeteendra Marcelline (August to September 2016)
- Labing Isang Daliri, by UP Painters' Club (October 2016)
- Salinlahi, by UP Photographer's Society (November 2016)
- Panggayak: Fusion of Arts and Fashion, featuring arts from UP Rural High School Grade 11 students Senior High HUM 1 (December 2016-January 2017)
- TRANSCRUCIFIX, by Prof. Glenn Cagandahan (February 2017)
- Artistic Hands, Scientific Minds, featuring Dr. Augusto C. Sumalde and Dr. Constancio C. de Guzman (March-April 2017)



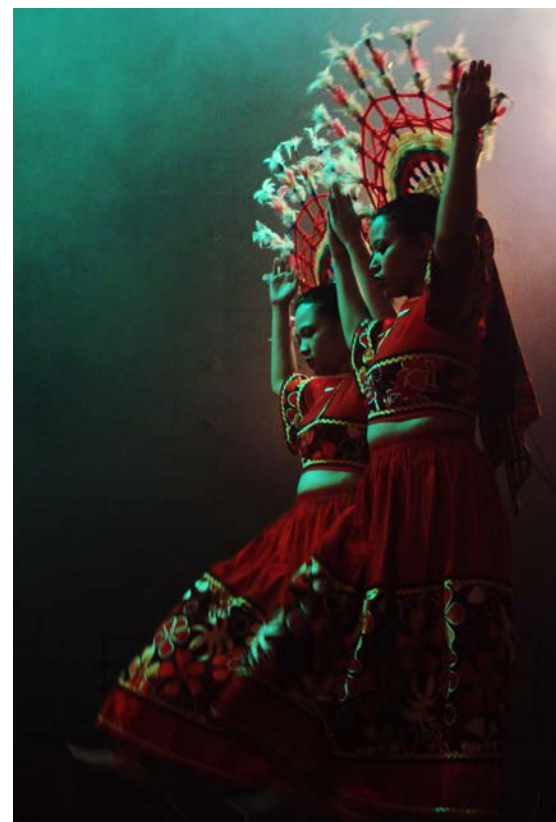
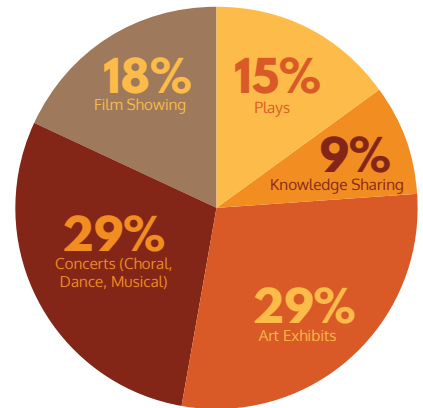


In music, the UPLB Choral Ensemble won the grand prize over eight other countries during the 10th Orientale Cententus International Choral Festival last July 10, 2017 at the Esplanade Concert Hall in Singapore. The 26-member choir earlier won in the mixed choir and the sacred music category. Conductor Roiijn Suarez received the Special Jury Prize for the Most Promising Young Conductor.

Culture and the arts activities of student organizations

The University renovated various facilities and rooms in campus including theater venues, auditorium, halls, and outdoor spaces, which were made available as venues for arts activities. In the last three years, 55 various student organizations have already held concerts, exhibits, film showings, plays, lectures, seminars, symposia, and other knowledge sharing activities in these venues.

In addition, 16 other concerts (choral, dance, musical) and 16 art exhibits (painting, photography, comics) were conducted. UPLB also expanded its support for cultural groups like the Choral Ensemble, Sandayaw Cultural Group, Wyre Underground, and Harmonya, UP Painters' Club, UP Photographers' Society, and the Graphic Literature Guild through special stipends, sponsorships, and free use of selected UPLB facilities.



Sports in UPLB

Through the Department of Human Kinetics (DHK) and the UPLB Sports and Recreation Committee, UPLB hosted two major regional and provincial athletic events, namely: the Southern Tagalog Regional Association of State Universities and Colleges (STRASUC) in 2014 and the Laguna Colleges and Universities Athletic Association (LACUAA) in 2016.

Outstanding UPLB student-athletes also competed in the National State Colleges and Universities Athletic Association (SCUAA) where our swimming team won nine gold and four silver medals. The Futsal Team got a silver medal, and the Archery team got one gold, two silver, and two bronze medals.

We even enhanced support for our athletes through the Special University Performers-Student Assistantship (SUPSA) and provided monthly financial support of up to Php 2,000 to selected athletes.

Institutionally, we maintained the sports tradition of holding the annual Palarong UPLB to give faculty members, staff, and students a chance to deviate from their regular activities and use games as an opportunity to de-stress, participate in physical activity and wellness, and strengthen their camaraderie.

Externally, UPLB also actively participated and sponsored regular dual meets and friendship games with IRRI and the Central Luzon State University (CLSU) that further enhanced our working relationship with these two partner institutions.

UPLB made additional funds and resources available for all these initiatives in sports, including renovations and development of the Copeland gymnasium and adjacent softball and tennis areas at the Copeland commons.





KEY GOAL 2

*Promoting the use of
UPLB's knowledge and
technologies towards
attaining inclusive growth*

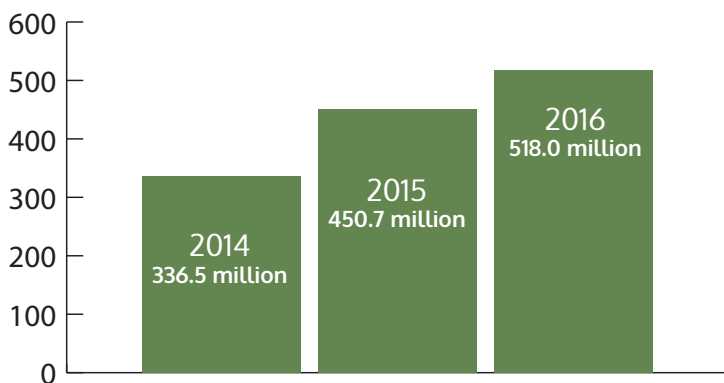


Improved fund generation for revitalized research activities

Our efforts to nurture research collaborations bear fruit in the form of increased research funds and activities. A steady stream of funds for research equipment poured in since 2015. These funds will further mobilize and encourage colleges and units to conduct quality research towards the University's thrust on food security, inclusive growth, nanotechnology, and genomics. These strengthen our research endeavors towards our goal of becoming a globally competitive research university.

Research, Development, and Extension (RDE) funds

From 2014 to the early months of 2017, funding for research and extension activities dramatically and regularly increased from PhP336.526 million in 2014 to PhP450.714 million in 2015 and eventually to PhP518.018 million in 2016. Majority of the RDE funding support came from government agencies, while a portion came from private local and international funding agencies.

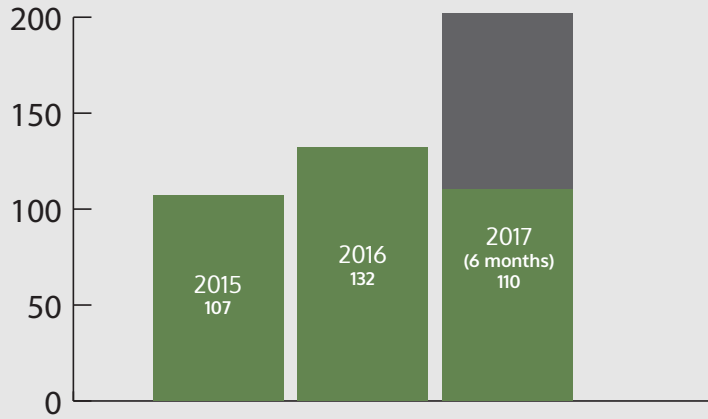


Government funding, 2014-2016

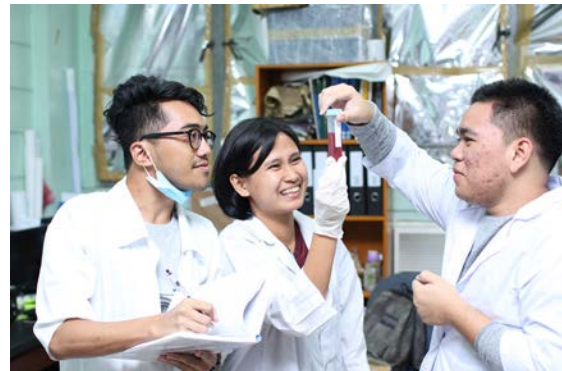
Fund Source	2015	2016	2017*	Total
UPLB	107	132	110	349
UPLBFI	96	91	82	269
Core	107	70	33	210
TOTAL per year	310	293	225	828

Research projects

With vastly improved support and enabling environment for research, our research productivity increased significantly. The 107 UPLB-monitored research projects of 2015 surged to 132 completed researches by 2016. In just a six-month period from January to June 2017, we already surpassed the completed researches for the entire 2015.



Completed research activities, 2015-2017





UPLB Basic Research Program

We also upheld the implementation of the Basic Research Program, an initiative of earlier administrations, to strengthen the research culture in the University while providing a mechanism to expose and mentor young faculty and REPS in actual research activities that can respond to national development needs. We increased allocation for the program to PhP5 million and approved 78 basic research proposals for implementation broken down into 2015 (42); 2016 (13); and 2017 (23).

International Publication Awards (IPA)

The UP System-wide IPA for Journal Articles aims to encourage faculty, REPS, and students to contribute to the body of knowledge in their respective fields and discipline by publishing in internationally respected journals, particularly those indexed by Web of Science and Scopus.

With intensified efforts in support of this thrust, UPLB IPA awards doubled annually since 2014.

Monitor	2014	2015	2016	2017*	Total per category
Journal Articles	18	76	220	22	336
Book chapters	2	7	17	2	28
TOTAL per year	20	83	237	24	364

*as of June 2017



Harold Dean Z. Layaoen:
Excellence-driven faculty
and researcher to better
serve the people

If we want to be a globally competitive graduate and research university, the effort needs to come from us as individuals.

This drives Harold Dean Z. Layaoen, first ever graduate of BS Industrial Engineering in UPLB and current chair of the Department of Industrial Engineering of CEAT.

After working for an electronic company for a while, Harold returned to the University and pursued teaching. His first research project centered on the improvement of hand tractors used by farmers. Through his research, he was able to optimize engine mounts and handle grips with reduced vibration transmission. This improvement gives great comfort to tractor operators and prevents them from developing hand-arm vibration syndrome.

As a mentor, he usually advises young researchers to pursue their passion and continue to serve our country as part of the national university. (RMC Ongkiko)



Enhanced technology development and commercialization

We have introduced 15 new crop varieties and hybrids as products of the ingenuity of our plant breeders and their partner agencies. Of these, eight varieties of vegetables had been registered under the National Seed Industry Council (NSIC).

We also intensified our efforts in commercializing our knowledge products. Currently, we have three technologies that are undergoing the process of commercialization, and 21 that are in the pre-commercialization stages. All of these technologies capitalize on our niches, which center on biotechnology, food and feed production, food safety, nanotechnology, and plant breeding.

UPLB-DOST Technology Business Incubator (TBI)

To promote innovations in commercialization, the University, in partnership with DOST, provided start-up support through our TBI services at the CTTE. Currently, UPLB has three incubatees: O'mark Enterprise, Biospark Corporation, and DENR-ERDB and is expected to secure more with the TBI expansion plans that are already underway.

UPLB-Agro-Industrial and Information Technology Parks

In connection with our TBI, and after almost five years, we were able to finalize the registration agreement with the PEZA for the creation of two Special Economic Zones (SEZs): the UPLB Agro-Industrial Park and the Information Technology Park. Both will strengthen university-industry interaction and will open more doors for the commercialization of our knowledge and technological products.

New crop varieties and hybrids (2015-2017)

Vegetables

'Princesa' (cucumber)*	'Tuba' (snap bean)**
'Urduja' (cucumber)*	'Wangal' (snap bean)**
'Amour' (squash)*	'Tanglaw' (eggplant)**
'Tikagan' (pole sitao)*	'Tanyag' (eggplant)**
'Itogon' (snap bean)**	'Sikat' (eggplant)**
'Kibungan' (snap bean)**	'Sulit' (eggplant)**

*Registered under the Germplasm and Technology Release and Registration Office, Institute of Plant Breeding, UPLB

** Registered under the National Seed Industry Council, Bureau of Plant Industry

Ornamentals

<i>Hibiscus rosa-sinensis</i> 'Evelyn Mae Tecson-Mendoza'
<i>Hibiscus rosa-sinensis</i> 'Carmencita David-Padilla'
<i>Hibiscus rosa-sinensis</i> 'Lourdes J. Cruz'
<i>Hibiscus rosa-sinensis</i> 'Patricia B. Licuanan'
<i>Hibiscus rosa-sinensis</i> 'Pia S. Cayetano'

Corn

"Mais PAEP" (Mais na Pinagbuti Alay sa Ekonomiyang Pangkabuhayan)*
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Pre-commercialization

Technology	Description	Unit
Acticon	Biopesticide	BIOTECH
Bio-N	Biofertilizer	BIOTECH
Colorants	Ingredient	BIOTECH
Detection Kit for Salmonella	Detection kit	BIOTECH
Hemicellulose (no name)	Coating	IC
Hi Yeast	Biopesticide	BIOTECH
Kakawate fertilizer	Biofertilizer	CAFS
Kakawate Microbial inoculant	Microbial inoculant	CAFS
Micromix	Biostimulant	BIOTECH
Mungbean variety	Plant variety	CAFS

Technology	Description	Unit
Mykoplus	Biofertilizer	BIOTECH
Nano-PGR	Biofertilizer	BIOTECH
Nanocoat/Fruitect	Coating	IC
Nanofertilizer	Biofertilizer	BIOTECH
Nutrio	Biofertilizer	BIOTECH
Pectin	Ingredient	IC
Protein enriched copra meal	Feed supplement	BIOTECH
Rennet	Milk coagulant	BIOTECH
Sea cucumber dryer	Dryer	CEAT
Vermicompost Separator	Separator	CEAT
WiltCure	Biopesticide	BIOTECH

For commercialization

Ampalaya variety	Plant variety	IPB
Coconut Tissue Culture	Process	CAFS

BBTV-resistant Banana	Plant variety	IPB
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Commercialized

Bio-Groe	Microbial inoculant	BIOTECH
CocoNaturel	Soap	BIOTECH
Mykorich	Biofertilizer	BIOTECH
Mykovam	Biofertilizer	BIOTECH

Nitroplus	Biofertilizer	BIOTECH
Sinta Papaya	Plant variety	IPB
Trichoderma	Biofertilizer	BIOTECH
Virgin Coconut Oil	Food supplement	BIOTECH

Contributions to advancing national policy and the Philippines' development agenda

As ideals and metrics of our research and public service output, UPLB remained steadfast in initiating capacity-building, extension, and action programs with potentials to influence national policy and impact Philippine development goals.

Farmer-Scientist Training Program



Dr. Romulo G. Davide (right) works with farmer-scientists in Bataan province.

Conceptualized in 1994 by Dr. Romulo Davide, the National Corn-based Farmer Scientist RDE Training Program for Sustainable Agricultural Development under EO 710 (FSTP) addresses poverty among corn highland farmers in Cebu. The program, through three season-long lectures and experimentations, transforms farmers into farmer-scientists-trainers who can effectively manage their corn-based farm systems. FSTP equips farmers with knowledge and skills to identify agricultural technologies as well as to create market linkages.

Started as an action program under then College of Agriculture, FSTP has partnered with local government units, DA-ATI, DAR, DENR, DILG, other state universities and colleges, and various agencies, as a national program promulgated by Malacanang EO 710.

Through FSTP, we have helped farms in 72 municipalities in 34 provinces from Regions 1 to 13. Around 12,000 farmers are already trained nationwide. Cebu, which implemented the program province-wide, has already trained almost 70,000 covering 47 municipalities and seven cities. In 2016, the FSTP won as outstanding public service program in the UP Gawad Pangulo Award for Excellence in Public Service.

Gawad Pangulo Award

The FSTP received this year's Gawad Pangulo Award for Excellence in Public Service. UP President Alfredo E. Pascual presented the award to the FSTP team headed by Dr. Romulo G. Davide, FSTP program leader.

The award recognizes UP individuals and institutions with public service works that embody honor and excellence.

Dr. Davide, a professor emeritus at UPLB, was given the Ramon Magsaysay Award in 2012 for his work and accomplishments in implementing the FSTP.



**Morena Dalagan:
Successful
Farmer-Scientist**

From a simple farmer and housekeeper, Morena Dalagan who hails from Tampakan South Cotabato, is now a busy businesswoman earning at least a million annually. Her success can be attributed to the help extended by FSTP.

Morena previously practiced monocropping. However, through FSTP, she was encouraged to do intercropping of high-value crops alongside major crops. Thus, her farm now grows a bountiful combination of market crops enough for home consumption and surplus for the market. She started producing bananas in her upland farm and aggressively sold her harvests in the market, not in kilos but in tons. Her big breakthrough came when she managed to secure a buyer from Manila.

Nonetheless, Morena's success did not end with her getting rich. Through her business, she is also providing employment to many residents of her barangay. Also, FSTP's efforts are indeed being paid forward as Morena continuously teaches and mentors other farmers about effective farm production. (AFBJamias)



Top: One of four meetings for the seven pre-summits held prior to a national summit to formulate the national water security roadmap. This is part of a project led by UPLB experts on water resource studies, entitled "Towards a Comprehensive National Plan for Water Security (Roadmap Preparations)" that is funded by the National Water Regulatory Board. Dr. Ernesto Ordoñez is the secretary general of the Steering Committee on National Water Security Roadmap and Summit 2017. **Lower left:** Chancellor Fernando C. Sanchez, Jr. gives the welcome remarks during the techno forum entitled "Makalikasang talakayan tungo sa sustenableng supply ng tubig sa Los Baños," one of the highlights of the Regional Science and Technology Week and 'Syensaya' led by the Los Baños Science Community Foundation, Inc. (LBSCFI) in 2017. **Lower right:** CEM Dean Isabelita Pabuayon, vice chancellor for community affairs, Dr. Serlie B. Jamias, and Dr. Ernesto O. Brown, director of the DOST-PCAARRD Socio-Economics Research Division thank the speakers: Amparo C. Ampil, chief of the Food Agriculture and Fisheries Division of the Department of Agriculture (DA), who discussed the implications of food in the ASEAN economic community and Timothy Moises C. Mendoza, Food Drug Regulation Officer of the DOH-Food and Drug Administration.

Comprehensive national roadmap for water security

To address the Philippines' water security concerns, UPLB formulated the National Water Security Roadmap in the context of climate change and globalization. Funded by the National Water Regulatory Board (NWRB), we are reviewing and analyzing the continuing water-related problems of the country and drafting solutions to address perennial and emerging concerns.

Currently, UPLB is consolidating local and global studies related to water security to help identify the major issues from seven focus areas: domestic, economic, agriculture, environment, urban, resilience, and governance. Together with the Steering Committee on National Water Security Roadmap and Summit 2017, UPLB will present its findings and recommendation in a national assembly slated to be held by the end of 2017.

National summits on agricultural structural transformation and food safety

With a firm belief on the need to structurally transform Philippine agriculture, we created a multidisciplinary committee to formulate an action-oriented national program for agriculture. The committee has conducted several workshops and drafted a discussion paper on agricultural transformation that emphasized pro-poor and pro-environment growth changes necessary to energize the country's agricultural sector. We hope to finalize a unified agricultural agenda with key players during the 2017 National Agriculture Summit, which will bring together public and private stakeholders.

We also held the first national food safety conference entitled "Institutional capacity and readiness to implement the Philippine Food Safety Act" on June 1, 2016 at the Obdulia Sison Hall in UPLB. The conference, spearheaded by CEM, revealed the initial findings of their research project "Analysis of S&T-related institutional capacity and readiness to effectively implement the Food Safety Act." The study was done four years after Republic Act No. 10611 or the Food Safety Act (FSA) of 2013 was signed into law.



Dr. Decibel Faustino-Eslava and Dr. Leonardo M. Florece, current and former deans of SESAM and both members of the project MODECERA conduct fieldwork in Carranglan, Nueva Ecija with partners from Central Luzon State University. In the background is the Carranglan grasslands showing erosional/ landslide features, which Dr. Eslava is using to demonstrate the use of a landslide scoring card. MODECERA is a DOST and DOST-PCAARRD funded program that aims to set up monitoring systems in selected ecosystems to enhance resilience and adaptation of the agriculture and natural resources sector to ecosystems changes.

Interdisciplinary researches

As we promoted new interdisciplinary approaches to research, UPLB increased collaborations among its units as well as those with outside agencies to address pertinent societal problems and deliver practical solutions in a holistic, integrative, and scientific manner. Outputs of nationwide programs such as MODECERA¹, SARAI², LiDAR 1³ and LiDAR 2⁴ have provided more efficient, coherent, and appropriate adaptation and mitigation measures for climate change, disaster risk, and agricultural productivity concerns.

Land inventory and socio-economic profile of Agrarian Reform Beneficiaries (ARBs)

To optimize the benefits of agrarian reform and clarify the status of the lands identified and distributed to ARBs, UPLB has started an inventory of data collection activities through a national baseline study. This study will determine the status of the ARB lands distributed and the socio-economic conditions of the acquiring farmer-beneficiaries and other tillers.

Sugarcane industry development

The Sugarcane Industry Development Act of 2015 has strengthened our partnership with the SRA through advisory, research, and academic collaborations. Currently, we are involved in four of six committees. We are also collaborators and proponents of nine projects funded under the 2016 SIDA budget. These projects amount to a total of PhP 42.87 million for the first year of implementation and is expected to provide additional scholarship grants for undergraduate and graduate students.

National Program for Integrated Crop Monitoring and Forecasting System (ICMF)

As an offshoot of Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (Project SARAI), ICMF focuses on the operationalization of a national crop monitoring and forecasting system.

The system provides real-time cropping information and advisory system to help farmers better manage their farms and prepare for typhoon. The system also promotes a proactive adaptation paradigm among key players and stakeholders.

The system includes health status and growth stages of the crops; national estimation and mapping of areas planted with rice and corn; and agricultural damage assessments from extreme weather events.

The Project aims to process available satellite data from NASA and EU and bring them to levels usable by various stakeholders, including farmers. It has already partnered with and trained officers from Regions 2, 3, and 12 as a start of establishing regional hubs where farmers can easily go to for quick weather-agricultural information. These partnerships enable an active field validation mechanism, provide real-time field situations, and cross check information from satellite images. Ultimately, the goal is to empower farmers with site-specific and near real-time crop-weather information.

¹ **Program Title:** Monitoring and Detection of Ecosystems Changes for Enhancing Resilience and Adaptation in the Philippines (MODECERA), **Program Leader:** Dr. Rex Victor O. Cruz

² **Program Title:** Smarter Approaches to Reinvigorate Agriculture as an Industry (SARAI) in the Philippines, **Program Leader:** Dr. Maria Victoria O. Espaldon

³ **Program Title:** PHIL-LIDAR 1. Hazard Mapping of the Philippines Using LIDAR (Program B. LIDAR Data Processing and Validation by SUCs and HEIs), **Project Title:** Project 4. LIDAR Data Processing and Validation in Luzon: MIMAROPA and Laguna (Region IV), **Project Leader:** Prof. Edwin R. Abucay

⁴ **Program Title:** PHIL-LIDAR-2 Nationwide Detailed Resources Assessment Using LIDAR (Program B. LIDAR Data Processing, Modeling, and Validation for the Nationwide Resources Assessment) **Project 4:** LIDAR data processing, modeling, and validation by HEIs for detailed resources assessment in Luzon: MIMAROPA and Laguna (Region IV), **Project Leader:** Dr. Damasa O. Macandog



The Big Team during the 2016 expedition to the Benham Bank was composed of personnel from UPLB, BFAR, Philippine Navy, Philippine Coast Guard, and Oceana. (Photo taken by Alvin Simon)

Collaborative research (Benham Rise expedition)

In April 2012, Benham Rise was recognized by the UNCLOS as the rightful territory of the Philippines. The national government immediately began working to discover the ecological and economic potential of this 13 million-hectare, 3000-meter deep submarine area. Tapped by DOST along with experts in UP Diliman, UP Baguio, UP Mindanao, Xavier University, Ateneo de Manila, and the DA-BFAR, Dr. Hildie Maria E. Nacorda of SESAM led a group of experts in the first exploration of the Benham Bank's bottom in 2014 and 2016. The team recorded reefs in pristine condition and over 60 species of bony and cartilaginous fish as well as four species of green algae.



Descent into the summit: The Benham Bank Seamount Project

"Each and everyone was eager to be one of the first to enter a world still untouched by man."

These were the words of Dr. Hildie Maria E. Nacorda, assistant professor at SESAM, as she recounted their expedition to the shallowest part of the newest territory of the country - the Benham Bank Seamount of the Benham Rise.

SESAM was commissioned to lead a project that would assess the benthic resources of the Bank. Dr. Nacorda, along with her colleagues and experts from UP Diliman (MSI and NIGS), UP Baguio, UP Mindanao, Xavier University, Ateneo de Manila, and the DA-BFAR, set sail for and descended into Benham Rise in 2014 and again in 2016.

The 2014 expedition increased the public's awareness on the Benham Rise. Continuous study of the Rise can input into our country's knowledge as to whether the country should declare it as a protected area or capitalize on its resources.

Indeed, our scientists are sources and conduits of information as well as research results that are useful for industries and the country. As what Dr. Nacorda shared: "Mapping Benham Rise is the first step. We should know what is there to protect and what's in it for us. What we saw was just the tip of the iceberg. *Malalim pa ang maaari nating madiskubre* (there is so much more to discover)." (MRBQ Inzon)



BIOMECH

To address new developmental changes, the AMDP was reorganized into the BIOMECH, which is one of the major research and extension arms of the University. Elevated from a program to an institutional center on October 29, 2015, BIOMECH was involved in the formulation of programs for the Agricultural and Fisheries Mechanization Law of 2013 (RA 10601). It is currently formulating the National Agri-fishery Mechanization Program (NAMF) and the National Agricultural and Fisheries Mechanization Research and Development and Extension Agenda (NAFMechRDE) while developing tools and technology packages for the production and processing of various crops and renewable sources of energy.

Other contributions to policy making

Even outside our regular research and public service programs and projects, other UPLB individuals and institutions also made noteworthy contributions to national policy and development agenda.

Experts from CAFS were tapped by PhilRice to formulate a policy paper on proper pesticide use and regulation. Institutionally, we hosted and participated in various roundtable discussions to develop frameworks for the proposed National Urban Development and Housing Framework (NUDHF). We also regularized policies and support for our colleges that participated in various policy conferences as well as interagency meetings on environmental management issues such as the Lake Ecosystem, Assessment, Sustainable Laguna Lake Management, Environmental Resiliency, and National Water Summit and Roadmap.

We also sponsored our faculty and REPS' participation in Gender Parity in Science and Technology and Social Development Agenda, consultation in Taal Volcano Protected Landscape, revisions of the Environmental Code, Forest Code, Community-Based Forest Management, and Philippine Forest Certification System for Sustainable Forest Management. UPLB was also instrumental in the formation and is actively involved in the Los Banos Climate Change Council that enforces laws, and formulates and implements programs on climate change adaptation and mitigation.



The National Conference on Food and Nutrition Security that was held on Oct. 12-13, 2015 convened advocates and stakeholders of food security in the country to discuss current status, issues, and challenges in the food industry; define policies; and develop collaborative RDE programs for food security in the country. The conference was organized and led by the UPLB Interdisciplinary Studies Center on Food Security.

Strategic and interdisciplinary action programs

The University is embracing both the interdisciplinary and transdisciplinary approaches in research as part of our thrust to make our research, development, and extension programs more holistic, inclusive, and responsive to the needs of society.

UPLB is seeking BOR approval for the formal creation of “virtual centers” from the first batch of UPLB Interdisciplinary Studies Centers, which were established in 2014. Among these centers are the following: ISC-FaNS, CDRSC, IBRSC, and C-INREM.

Interdisciplinary Studies Center on Food and Nutrition Security (ISC-FaNS)

ISC-FaNS has spearheaded research and organized a series of roundtable discussions on assessing food and nutrition security in the country; production, marketing, post-harvest issues; and governance of delivery systems.

Moreover, we have conducted the 2015 National Conference on Food and Nutrition Security, participated by around 200 delegates who aimed to find solutions to make food available, accessible, affordable, and nutritious. The Center has also developed the Master of Science in Food Control System which is now being evaluated by the UPLB Graduate School.



Interdisciplinary Biofuels Research and Studies Center (IBRSC)

As lead center in sustainable energy development, IBRSC conducts studies on feedstock production, utilization, and commercialization. We are also spearheading the proposal for a carbon tax policy as part of the country’s climate change mitigation program.

IBRSC hosted the 2015 Philippine International Biomass Conference and conducted a series of workshops and seminars on research ideas for bioethanol. Along the way, we have built partnerships with the SRA, Tokyo University, and Texas A & M University.

Moreover, a Biofuels Research Road Map is already in the pipeline to facilitate the attainment of our vision towards sustainable energy.

Climate and Disaster Risks Studies Center (CDRSC)

To more resolutely push for climate-resiliency agenda for the country, we instituted the CDRSC to engage with national agencies on research undertakings and other capacity building initiatives. For public service, we have extended technical assistance to LGUs in Laguna to enhance the formulation of their respective LCCAP.

In instruction, we developed the new graduate studies program (Master of Science in Climate, Environment and Society) for Philippine HEIs under the DOST National University Consortium. Further, we are organizing the 6th International Conference on Climate and Disaster Risk Management in September 2017.

Interdisciplinary Studies Center for Integrated Natural Resource and Environment Management (INREM)

To complement CDRSC, we also organized the INREM to conduct researches on participatory watershed management, assessment of land and forest degradation, sustainable forest management education, and climate change projections and impact assessment.

Through the INREM, UPLB was able to organize and host two national conferences. The National INREM Conference in 2014 produced 13 full papers, which were published in a special issue of the a Web of Science-indexed Journal of Environmental Science and Management (JESAM). The 2017 International INREM Conference resulted to 70 paper presentations and MOA signing between UPLB and DENR on Sustainable Integrated Area Management.

UPLB was also involved in researches and programs such as the Nanotechnology; PGC Agriculture, Livestock, and Fisheries; Natural Products Development; and the Bee programs.

UPLB's Nanoscale Research Initiatives

The UNESCO, through their Science Report 2016, recognizes the University's research initiatives in the field of nanotechnology. Because of the Center for Nanotechnology Application in Agriculture, Forestry, and Industry or our Nanotechnology Program, UPLB was cited as the sole academic institution in the Philippines investing in nanotechnology. Our research efforts in the field date back to 2014 following the passage of the Technology Transfer Act of 2010. Indeed, our initiatives are laying the backbone for nanotechnology research and innovation supporting our thrusts in agriculture, food, and forest product sectors.



The UPLB Interdisciplinary Studies Center for Integrated Natural Resources and Environment Management (INREM) organized and hosted two conferences, the first on Oct. 16-17, 2014 and the second on Feb. 21-23, 2017. The first conference aimed to facilitate conversations among INREM stakeholders in the country; synthesize knowledge about INREM initiatives; establish networks among stakeholders; and develop the INREM RDE agenda. The second conference focused on the same objectives, but expanded its coverage to stakeholders in the Asia-Pacific region.

Programs



Nanotechnology Program

In line with the national research priority in nanotechnology, UPLB has developed nanosensors and nanostructured materials from agriculture by-products to improve agricultural productivity. Since the first tranche of funding in 2013, UPLB has produced 12 invention disclosure agreements and patent applications; and 23 potentially commercializable products. We have also partnered with at least three industry partners; trained 53 researchers in nanoscale analysis, fabrication and characterization of nanomaterials; and assisted more than 33 graduate and undergraduate students from various UPLB colleges.

With the establishment of the UPLB NanoScience and Technology Facility in early 2017, we continue to focus on the full utilization of nanotechnology for the improvement of agricultural and forest productivity as well as for food and environmental safety and security. Moreover, the establishment of five service laboratories with expertise in nanoscale analytical and instrumentation analysis is helping us address the needs of various academic and government research institutions. We also played a major role in the creation of the PCIEERD-DOST roadmap for nanotechnology applications in agriculture and food.



Philippine Genome Center Agriculture, Livestock, and Fisheries Program

We are at the forefront of research on the genetic improvement of plant varieties and animal breeds. Starting with the pillar five crops (abaca, saba, pili, sugarcane and coconut), 13 new commodities were added in 2016 through cross-listed projects.

We are doing genomics research in mango, coffee, cacao, rubber, swine, cattle, shrimp pathogens, chicken gut metagenomics, oysters, mussels, Falcatta, Yemane, and the Forest CANOPI metagenome. Also, with our newly established greenhouse containment facility and approval of the plans for the Philippine Genome Center-Agriculture Building, we are looking forward to conducting further research on gene discovery and genomics.



Natural Products Development Program

Mobilized by our dedication to contribute to the nation's initiative towards drug discovery and development, we have been conducting research on the flora of Mount Makiling. As a result, we have identified endemic species with known traditional and/or medicinal uses in search of biologically active compounds for the prevention and treatment of various diseases. Consequently, our Center is one of the Tuklas Lunas centers of the Philippine Council for Health Research and Development (PCHRD)-DOST.

Also, to reinforce our drug discovery process, we are in the works for the establishment of a Small Animal Laboratory and the revival of a Medicinal Plants Garden.



Bee Program

Bee research and development supports sustainable agriculture and forestry. Currently, our stingless bee technology is being used nationwide in the production of high-value crops such as mango, lanzones, and rambutan.

Our studies also gave birth to the formulation of the Philippine National Standard for Honey, Philippine National Standards Code for Best Beekeeping Practices, and Philippine National Standard for the Production of Organic Honey.

As we create a niche for bee products in the local and foreign markets, we continue to provide technical assistance to the general public on pollination, bee diseases, and bee product quality. From 2014 to 2016, six publications and numerous paper presentations were produced from our research.



Since UP Mindanao was created in 1995, UPLB has been working together with UP's southernmost CU in strengthening its instruction, research, and public service programs.

Food Security and Climate Change Center

UPLB, with its proven capacities in agriculture and environmental science, was able to secure an allocation of PHP 20 million to establish the Food Security and Climate Change (FSCC) Center right in the country's food basket, Mindanao. FSCC Center will become an instruction and research hub for knowledge generation and capacity building on food security, sustainable food production systems, climate change resiliency, sustainable resource use, risk reduction and mitigation, as well as entrepreneurship and financial management. FSCC Center will be co-managed and its programs will be implemented in partnership with UP Mindanao.

La Granja Research and Training Station (LGRTS)

As an extension of CAFS, UPLB increased support to LGRTS and provided the station with additional facilities including tractors, service pick-up truck, and a commuter van along with new office equipment (photocopier, air conditioning unit, desktop computers, etc.) and other implements. We also secured the assistance of the Provincial Government of Negros Occidental for the construction of a mushroom laboratory at the LGRTS where the province's constituents will be trained by experts from CAFS. Through LGRTS, UPLB also provided equipment and chemicals for mushroom culture to the Negros Island Sustainable Agriculture and Research Foundation, Inc.



Dr. Enrico P. Supangco, dean of CAFS, gives his message during the 45th anniversary of LGRTS on March 31, 2017. By virtue of RA 2415, LGRTS was established as a branch of then UPCA in La Carlota, Negros Occidental.

Improved research management

UPLB Research Mentoring Program

To strengthen our Basic Research Program and to nurture UPLB's human resources, we instituted the Research Mentoring Scheme. The scheme is designed to form a partnership between a senior and a junior researcher to build on the latter's technical and project management skills. Senior researchers act as mentors who will train the junior researchers to be independent investigators. Meanwhile, the junior researchers are expected to provide novel ideas and take a proactive role in producing the expected outputs of the study. To date, we have 78 ongoing senior-junior researcher partnerships.

UP System research programs and grants supported by UPLB

Through our various offices and units, we help disseminate and facilitate various information and programs coming from the UP System, especially those that support our research directives and initiatives. Two of these distinct programs are the EIDR and the ECWRG.

Emerging Interdisciplinary Research (EIDR) Program

The EIDR Program is a grant program under the UP System's Office of the Vice President for Academic Affairs (OVPA). It encourages and supports innovative, interdisciplinary, and inter-CU research programs and projects to generate fundamentally new knowledge contributing to the understanding of natural phenomena.

From 2014 to 2017, 18 of our programs and projects were beneficiaries of the EIDR Program. Most of the projects focus on water safety and security, crop and feed production, alternative energy, food safety and security, forestry, and the environment.

Enhanced Creative Work and Research Grant (ECWRG)

CDRSC engages with national agencies for various research undertakings, trainings, and capacity building initiatives in developing climate resiliency in the country. It also extends technical assistance to Local Government Units (LGUs) in Laguna to enhance the formulation of their Local Climate Change Action Plan (LCCAP).

We are also developing new graduate programs (Master of Science degree in Climate, Environment and Society) for Philippine HEIs under the DOST National University Consortium.

Further, we are organizing the 6th International Conference on Climate and Disaster Risk Management to be held in September 2017.



University officials flank award recipients during the 108th UPLB Foundation Day Convocation Program. (L-R) Dr. Susan May Calumpang, assistant vice chancellor for research and extension; Dr. Edwin Alcantara, Outstanding Researcher (natural sciences); Guillerma Valencia, Outstanding Extension Personnel; Dr. Desiree Hautea, Outstanding Researcher (natural sciences); James DV Alvarez, Outstanding Researcher (natural sciences); Dr. Zenaida Sumalde, Outstanding Researcher (social sciences); Elmer DS. Rufo, Outstanding Artist; Dr. Menandro Acda, Outstanding Researcher (natural sciences); Dr. Jose Hernandez, head of the Rice Varietal Improvement Program that was named as Outstanding Research Team; UP Regent Francis Laurel; and Chancellor Fernando C. Sanchez, Jr.



Knowledge creation and sharing is enhanced by collaborations and partnerships with international and local R&D organizations. Thus, the university creates opportunities for its researchers and scientists to participate in conversations to explore collaborative partnerships such as the UPLB-CGIAR Center's Collaboration Meeting on June 20, 2016 at the Drilon Hall, SEARCA, UPLB.

Greater knowledge sharing

Research symposium

Dubbed as *Pagtuklas*, the UPLB Research Symposium aims to present the quality, diversity, and novelty of outputs or research projects funded by the Basic Research Program to the UPLB community and its valued partners. Results of selected research projects were presented to our partner government agencies for potential collaborations and research expansion.

Our first *Pagtuklas* in 2015 featured eight basic research results across three thematic areas: increasing the production of safe and quality food; improving the productivity of agricultural farms; and agribiotechnology and nanotechnology. Accordingly, the DA and DOST-PCIEERD expressed interest for future collaboration on the next phase of the research project.

Scientific Paper Writing Workshop Series (SPWWS)

Aimed to propel UPLB's status as a research university, we offered two programs: the SPWWS and the Publication Grant Program (PubGrant).

Funded by DA-BIOTECH and DA-BAR, respectively, both programs are increasing the university's publications through editorial and monetary assistance for unpublished but quality research.

Five batches of the SPWWS were conducted from 2015 to 2016. Over 100 young researchers were guided by seasoned publication specialists in writing their research. Through these scientific writing workshops, researchers were able to convert their theses, dissertations, and other research outputs into publishable forms.

Online portal and journal

To widen our reach and visibility as a research university, we further developed a portal dedicated to feature our research, development, and extension (RDE) activities. Maintained by the Office of the Vice Chancellor for Research and Extension (OVCRE), our RDE portal contains a bi-annual newsletter, a collection of video presentations, databases of experts, projects and technologies, catalog of training program offerings and analytical services, and a calendar of events.

Operating side by side the UPLB RDE Portal is the UPLB Journals Online website, which aims to increase the use and citations of scientific articles authored by our faculty and researchers. Uploaded on the site are journals and technical bulletins published by various units of the University and affiliate organizations.

Two of our published journals are Web of Science indexed, namely: The Philippine Agricultural Scientist and the Journal of Environmental Science and Management. Currently, UPLB has 14 published journals.

UPLB's Philippine Journal of Veterinary Medicine (PJVM) and the Journal of Environmental Science and Management are now recognized journals of the Commission on Higher Education's Journal Incentive Program (CHED-JIP). The two have been accepted to the Journal Challenge (JC), the grant for Scopus/Web of Science-indexed journals.

Publication Grant Program (PubGrant)

To complement the SPWSS, the three-year program PubGrant offers writing and editorial services, journal matching service, and a publication fee assistance for faculty, REPS, and administrative staff. Hence, their unpublished theses or dissertations as well as unpublished research outputs become publishable papers.

For 2017, four Web of Science (WoS)-indexed journals are ready to accept papers from UPLB authors. The Philippine Agricultural Scientist (PAS), Philippine Journal of Crop Science (PJCS), Journal of Environmental Science and Management, and the Journal of ISSAAS have been asked to refer page charges and/or publish one special issue through the PubGrant. At the end of the year, we are expecting 42 publications from these special issues alone.

RDE Digest and RDE Chronicle

Since 2008, the RDE Digest has been UPLB's official RDE newsletter. In 2015, we reorganized the RDE Digest into a magazine with timeless stories of research and public service and created the RDE Chronicle. To differentiate it from the Digest, the Chronicle focuses on straight news and some news-feature articles. Both RDE publications have been promoting the research and public service culture of UPLB.

Research Photo Contest

Moreover, OVCRE also organized its first photo contest for UPLB students to promote a research culture among the younger generation and to make the concept of research more familiar and interesting to the general public. With the theme "Capturing UPLB's Research Heritage," a total of 20 photos featuring UPLB technologies, projects, and people that enrich UPLB researches, stood on display at the Carabao Park from May 4-8, 2015.

Published journals

1	The UPLB Journal
2	Ecosystems and Development Journal
3	Philippine Agricultural Mechanization Journal
4	Philippine Journal of Agricultural and Biosystems Engineering
5	Museum Publications in Natural History
6	Agricultural and Applied Economics Research Bulletin
7	Journal of Economics, Management and Agricultural Development
8	Journal of Environmental Science and Management
9	Journal of Human Ecology
10	Journal of Public Affairs and Development
11	The Philippine Agricultural Scientist
12	Philippine Journal of Biotechnology
13	Philippine Journal of Development Communication
14	Philippine Journal of Veterinary Medicine



More accessible knowledge and technologies

UPLB Extension

We strengthened public services in the University by reorganizing the OVCRE and expanding venues for the discussions of extension and other public service concerns.

1st UPLB Public Service Forum

In response to the call for a more intensive public service, we initiated a two-part Public Service Forum on March 12 and May 7, 2015. The forum became an arena to lay down, consolidate, and define public service in the context of extension initiatives and activities of UPLB. Representatives and extension personnel from different colleges and units participated in formulating the UPLB Public Service and Extension Framework.

2015 ConExtS

Acknowledging the significance of the University's extension function, we held the 2015 UPLB Conference on Extension Services (ConExtS) on October 9, 2015 with the theme "Nurturing the Tradition of Distinctive Excellence Through Extension: UPLB's Contribution for a Globally Competitive Philippines." The ConExtS highlighted the different extension services and modalities provided by the University.

Innovation and Technology Hub

To create a suitable environment to stimulate the minds of our researchers, a new facility is now starting to take shape at an area adjacent to Baker Hall. The UPLB Technology Hub will serve as a venue for the "meetings of the mind" of young researchers and seasoned experts from multi-disciplines for the inception, development, and nurturing of fresh concepts, innovations, inventions, and programs. Hence, the Hub will provide the setting for the intensification of scientific research through conceptualization of new proposals for potential funding and grants.

Funded by the DA-BAR, the Hub will also be a repository of UPLB products and technologies, which will be on perpetual display for the UPLB community as well as for prospective partners in the industries, government agencies, LGUs, SUCs, and the general public.





Educational destinations

The University continues to lead the country's biodiversity research and activities and showcase these through the Museum of Natural History (MNH). The MNH houses numerous preserved biological and zoological specimens, wood samples, and by-products of microorganism.

The MNH receives an average of 2,500 visitors a month. The Museum aims to raise awareness on biodiversity not only of Mt. Makiling but of the country as well.

Other educational destinations at UPLB that instill awareness on the rich biodiversity of plant, animal, and other species include the National Plant Genetic Resources Laboratory (NPGRL) at the Institute of Plant Breeding-CAFS and the Anatomy Museum and Parasite Collection Center at the CVM.

NPGRL serves as a national center for germplasm collection and maintains important and potentially useful agricultural crops. The NPGRL got an infusion of PHP 600 million for rehabilitation.

Meanwhile, the Anatomy Museum and Parasite Collection Center exhibit terrestrial and aquatic animals at various stages of development, and houses parasites from domesticated and wild animals, respectively.

The University Library

As a public service university, our libraries extend their services to non-UP users such as researchers from other institutions, government offices, and private sector on Mondays.

Moreover, with the continuous upgrading of IT facilities and services of the University Library, various public and private institutions tour our libraries for their benchmarking activity.

Apart from online access to journals, the library also provides an Online Reference Service where clients can request full text articles and other library materials not accessible on a remote access or in any University subscriptions through the Request It! function in the University website.

Furthermore, we recently started Library Research Assistance Services (LRAS) represented by two humanized library services, Elva - Electronic Library Virtual Assistant and Lira - Library and Information Research Assistant, catering to the information needs of UPLB and non-UPLB academic communities.

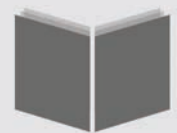
1,263
clients (research)
May 2016-February 2017



117
guests (benchmarking)



33
full-text articles provided



35
interactions through
ELVA (Electronic Library
Virtual Assistant)





Graduate students and foreign trainees conduct laboratory work in the Mt Makiling Forest Reserve.

Living laboratories

Makiling Botanic Gardens (MBG)

Located just within the Mount Makiling Forest Reserve (MMFR) is another living laboratory dedicated to serve professional instruction and research for forestry and plant science activities - the Makiling Botanic Gardens. Established in 1963, the 300-hectare garden houses numerous native, endemic, and exotic plants. It hosts various tree planting activities, educational field trips, and recreational activities to encourage love for the environment.

Land Grant

The University of the Philippines, through the Land Grant Management Office (LGMO), manages vast land grant areas as permanent endowment for additional support to the University. In 1930, the 6,765 hectares of the Laguna-Quezon Land Grant (LQLG) was given to the University, and an additional 3,355 hectares of the Laguna Land Grant (LLG) was awarded in 1964. Collectively known as the UP Sierra Madre Land Grants, these land grants are envisioned to be a natural resource system that demonstrates and promotes environmental stability, protection, conservation, and restoration, and at the same time, an enduring source of University revenues.

With support from various government agencies and private organizations, the LGMO mobilized resources to reforest about 1,797 hectares in the year 2001 to 2016 for the National Greening Program of the government.

Moreover, we are developing the area, with its rich biodiversity of flora and fauna, into a Sierra Madre Heritage Park to further promote biodiversity conservation and sustainable development. This will be an educational and living laboratory for students and the community.

Extension programs of colleges and units

To live up to the three-fold functions of the University, our colleges are actively spearheading and participating in numerous extension programs to carry out the UPLB's thrust for climate resilience and environment conservation and education, and food security and nutrition. We have made significant headways through the continuous collaboration of our faculty, REPS, and students.

Technology Commercialization on Wheels (TCOW)

To improve agricultural conditions and sustain agricultural enterprise among rural communities, the College of Development Communication (CDC) launched the TCOW, a project that brings technologies closer to communities by using mobile exhibit trucks to introduce Packages of Technologies to areas that most need them.

In collaboration with DA-BAR, TCOW "roll out" activities were conducted from June to December 2016. This resulted in the provision of 33 technologies on crops, livestock, and fisheries to 905 farmers, fisherfolk, and other members of community-based organizations in 165 barangays in Infanta, Lucban, Tiaong, Dolores, Mulanay, San Narciso, Calauag, and Tagkawayan in Quezon; and Malilipot, Manito, Guinobatan, Tiwi, and Legazpi City in Albay.



CDC in partnership with the DA-BAR conceptualized and rolled-out the Technology Commercialization on Wheels (TCOW) project that brought various technologies on crops, livestock, and fisheries to farmers, fisherfolks, and members of community-based organizations in several barangays in Quezon and Albay.

Environment conservation and education

University extension programs also include various training courses to capacitate leaders and catalysts in their respective fields. The College of Forestry and Natural Resources (CFNR) trained "Educators for Nature Tourism" to be responsible and effective educators who would communicate responsible tourism towards resource conservation.

In partnership with numerous government and private organizations, CFNR held activities such as the Makiling Forum, Youth Summer Program, Eco Camp, and Tree Planting and Nurturing Program. These activities served as venues for the exchange of information, knowledge, and experiences about the MMFR and the environment. Also, these activities promoted environment conservation, encouraged awareness on the current environmental status, and inculcated values of responsibility for the environment.

Climate resilience

Recognizing the urgency of the climate change debacle worldwide, UPLB has concentrated a number of research and public undertakings to empower climate resilient communities nationwide and influence policy and structural changes at various levels of government. Currently, UPLB, through SESAM, is providing important technical assistance in the capacity building of disaster risk reduction (DRR) personnel of CALABARZON Local Government Units and in the drafting of respective Climate Change Adaptation (CCA) Plans.

We are part of the Climate Change Commission's Ecotown Upscaling project known as the Communities for Resilience (CORE). Via the CORE project, we have pursued activities to increase ecosystem-based community adaptation and mitigation practices.

Meanwhile, through the CFNR, we are at the helm of the upcycling of the Barangay Sagip-Saka Conservation Farming Villages, a community-based climate change assessment and vulnerability analysis aimed at improving climate resiliency through participatory watershed and ecosystems management.

Moreover, various UPLB units have been capacitated to provide training courses on remote sensing, Geographic Information System (GIS), as well as other monitoring and modelling tools for carbon forestry, agroforestry, and watersheds.

Food security and nutrition

At the grassroots level, we empowered communities for adaptive climate change measures. SESAM, in partnership with the World Food Programme, held consultative processes that brought together communities, government agencies, and other partners to ventilate peripheral concerns of livelihood, gender, and seasonal lenses and to develop long-term, tailor-fitted strategies on food security and nutrition in the midst of changing global climate.

Through the BIDANI Program of CHE, UPLB continues to address food and nutrition security by offering new training programs for LGUs to improve the nutritional status of their communities. The program was recognized among the outstanding programs in the 2016 Gawad Pangulo Awards for Excellence in Public Service.

Moreover, in support to the government's effort for maternal and young child health and nutrition, CHE led the advocacies on breastfeeding and the establishment of a lactation clinic. In the campus, establishment of lactation stations are underway and seminars promoting and supporting breastfeeding are on-going.

From cradle to cane: Child Development Laboratory, Center for Families of Children with Exceptionalities, and Elderly Program

Through the Day Care and Child Development Laboratory of CHE, the University continues to provide experiences for the holistic development of young learners. These laboratories also serve as avenues to train educators and student apprentices as well as test newly developed educational materials and teaching strategies.

In support to our laboratories are the Child Development and Learning Resource Center (CDLRC) and the Day Care Resource Center Training. Both programs train parents, guardians, and teachers on better handling of youngsters.

We also recognize the importance of family and its contribution to development; thus, we created the Family Academy, which encourages and supports researches on family development studies.

Our family development program is supported by the Tsikiting Corner Project initiated by the All-UP Academic Employee Union in 2016. The project aims to strengthen the value of family by establishing child-friendly spaces for our employees' children.

In 2017, CHE established the Center for Families of Children with Exceptionalities (FaCEs), a resource center that provides support to families and practitioners in addressing needs of children with exceptionalities. The Center will provide short courses and training programs in understanding differently abled children and equip them with skills necessary for effective educational interventions to children at home. FaCEs will give referrals to other institutions that provide educational support for these children and will also serve as a learning laboratory for students in Child Development and Human and Family Development. The building for this program is now being constructed near the Child Development Laboratory.

As important as our young children are our elders. Thus, we also created a program that will cater to the needs of the UPLB retirees and elderly of neighboring communities through the UPLB Elderly Development Program. EDP activities include exercises, nutrition counseling, and lectures all directed towards the development of our senior citizens.



CHE provides a whole spectrum of public service that the College dubs to be "from cradle to cane," including child development, providing of a resource center for families of children with exceptionalities, and a program for the elderly.



Public service and volunteerism

Ugnayan ng Pahinungod

Our Ugnayan ng Pahinungod Volunteer Program continued to function as an instruction-oriented public service program that utilizes extension and community work to achieve its mandate of developing civic values and character among constituents through engagement with underserved communities nationwide. In the last three years, it instituted two new programs in local cultural heritage promotion and service-learning assistance while registering significant increase in number of volunteers from an annual average of 270 in previous years to 500 from 2014-2017. It also had the most number of volunteers in a graduating class, from an average of 23 until 2013, to 41 in 2017, the most since its foundation in 1994.

From June 2013-June 2017, we fielded 1,999 volunteers at an average of 500 volunteers a year and trained 9,118 other students at an average of 2,280 individuals per year. Bulk of the volunteers were students who mostly served as facilitators of trainings and workshops under the Educational Enhancement and Sectoral Development programs. Some of the volunteers are faculty members, REPS, and alumni. Approximately 9,775 individuals in 148 project sites benefited from Pahinungod activities, which were conducted in resource-sharing partnerships with 146 public and private organizations and institutions.

Programs	Volunteers fielded				Additional students trained	Sites/communities	Individuals assisted
	Students	Faculty/Reps	Alumni	TOTAL			
Educational Enhancement	414	34	17	465	400	22	1,603
Sectoral Development	617	42	50	709	445	52	4,709
NSTP and Service Learning	148	8	2	158	4,804	53	2,212
Volunteer Development	396	35	30	461	829	21	1,170
Public Information and Advocacy	183	16	7	206	2,640	N.A.	N.A.
TOTAL	1,758	135	106	1,999	9,118	148	9,694
AVERAGE/YEAR	440	34	27	500	2,280	37	2,424



Collaborative activities

Under the lead of Pahinungod, we collaborated with the UP System Padayon Office and other CUs on the design and pilot implementation of the UP System Public Service Reporting and Monitoring database. The database will be institutionalized as official data repository of all UP public service involvement. The initial output of this initiative is the first UP Public Service Report.

We are also currently involved in the implementation of the “NGCP-UP Skills Camp.” This is a massive public service program that provides needs-based skills training, technical mentoring, employment and livelihood opportunities for an initial target of 1,000 residents in seven key areas around UP campuses.

ASEAN Youth Volunteer Programme (AYVP) 2016

With ASEAN Integration as one community with a common vision and identity, we collectively intend to develop ASEAN youth as our future leaders. Through the UP System Padayon, we collaborated with the National University of Malaysia, Ateneo de Manila University, and De La Salle University in conducting the AYVP from August 1 to 25, 2016. AYVP 2016 taught leadership competencies to 50 ASEAN youth volunteers while forging a sense of regional identity and cross-cultural understanding.

1st Colleges and Universities Public Service Conference (CUPSCon1)

To recognize public service efforts of various universities and acknowledge its significance to the community, we co-organized the 1st Colleges and Universities Public Service Conference (CUPSCon1) with the UP System through the OVPPA. With the theme “From the Ivory Tower to the Communities: Engaging Society with Commitment and Expertise,” the two-day event was held at the UP Open University on November 26-27, 2015. About 76 projects and papers from different colleges and universities all over the Philippines were presented in the event.

Promotion of IPB Var 6 corn grits for nutrition

To promote healthier food option and reduce malnutrition in Los Baños, we spearheaded a feeding program for 23 kindergarten and 20 grade school students from Bernardo N. Calara Elementary School and Bambang Elementary School, respectively. The feeding program featured one of our technologies, the IPB Var 6 corn grits, a nutrient-rich white corn variety developed for local breeding.

Basic planned meal of rice:corn grits (70:30) and affordable but nutritious viand were served to participating school children every lunch during school days. Results showed a significant increase in the average weight of the students. This development prompted parents to use rice:corn blend at home.

To further promote the utilization of IPB Var 6 corn grits, we established four strategic reselling stations in the municipality for easy access to the variety. Also, we held numerous seminars on the health benefits of IPB Var 6; basic nutrition; proper preparation of vegetables to remove pesticide residue; and family values.

The IPB Var 6 corn grits had been sold since 2016 by the Business Affairs Office (BAO) of the University. The BAO had also encouraged all food concessionaires of UPLB to serve corn grits in their menus.





Laguna Governor Ramil Hernandez awards UPLB's University Health Service, through Director Dr. Marilyn P. Reano, as the Best Performing Hospital in the province in 2015.

Health Service

The UHS, a secondary hospital accredited by the DOH, won as the Best Performing Hospital of Laguna on December 6, 2016. While it prioritizes UPLB students and constituents, it expanded its services for the greater community through various medical programs such as the following:

- Diabetes Health Education Clinic by the UHS Diabetes Team held every other Friday of the month, including free screening tests on scheduled dates
- Nutrition Clinic and Counseling by the UHS nutritionist-dietitian held on a regular basis as prescribed by the UHS Medical Officers for in-patients and out patients
- Elderly Program on Dementia and Alzheimer's Disease implemented in partnership with the CHE's Elderly Development Program
- Mass Immunization Program offering free or discounted vaccinations for flu, pneumonia, hepatitis, anti-TB BCG and others depending on the sponsors
- Annual UHS "Operation Tule" given free to UPLB dependents and with a nominal amount of PhP 100.00 to non-UPLB dependents, which jumpstarts on the Sabbath or Holy Saturday and every Saturday thereof for two consecutive months. All of the patients are provided with a complete one-week course of antibiotics and analgesics.

Initiatives towards rebuilding Marawi

As part of its proactive approach to public service, UPLB has committed its resources and formed the ad hoc Task Force on Marawi Rehabilitation last July 2017 to spearhead the collaboration of various UPLB offices and colleges for long-term, strategic, on-ground interventions towards the recovery of the war-stricken city.

The UPLB Task Force is currently coordinating with the Office of the Undersecretary, Presidential Management Staff, Office of the Cabinet Secretary, Office of Civil Defense, Mindanao State University (MSU), and the national inter-agency Task Force Bangon Marawi on post-disaster needs assessment activities. Assistance on food relief operations and agricultural capacity-building of selected internally displaced people (IDP) and families in the area will also be part of the recovery interventions of the Task Force.



Chancellor Fernando C. Sanchez, Jr. discusses the role of UPLB in the Task Force for Marawi's Rehabilitation with Undersecretary Jesus Melchor V. Quitain.

Stronger commitment to academic leadership and excellence

UPLB recognizes the vitality of institutional public visibility and accessibility, hence it intensified the utilization of information-education and other digital media to better communicate with a broader and more diverse public. We communicate the core messages of academic excellence and honor - of serving the community and the nations.

Community papers: Horizon and LB Times

We maintained our regular publications and improved online access. The LB Times is now available in broadsheet and magazine forms and is currently available for online viewing at the UPLB website. The UPLB Horizon, a platform for feature articles written by UPLB staff and students, is also now available online.

Multimedia

For better institutional visibility, we have tapped various media including local cable television, online website, and social media platforms.

Cable TV: Dito sa Laguna

Through CDC, we have produced and managed a development-oriented cable TV program, *Dito sa Laguna* (DSL), which regularly airs in the local Community Cable Vision Channel on Saturdays 10:00 am to 10:30 am. With the aim to broaden our extension and public service, the DSL features accomplishments and aspirations of Laguna. The program also helps identify and provide the information needs of the communities. Currently, the program reaches the municipalities of Los Baños, Bay, Calauan, and parts of Sta. Cruz, Liliw, and Nagcarlan.

UPLB website and other social media

We also intensified the use of online media. Our UPLB Facebook now has more than 111,000 subscribers and is one of the more effective means of reaching the public. The UPLB Twitter account, on the other hand, now has more than 18,000 followers and more recently, a number of news agencies links. We also created Instagram and Snapchat accounts as venues for constituents to share UPLB stories.

Since November 2014, we have produced and uploaded 53 videos of university events, student information materials, and university event publicity materials on UPLB's official Youtube channel. Currently, it has more than 500 subscribers.

UPLB Official Website and Social Media Accounts

Official website:

www.uplb.edu.ph



www.facebook.com/UPLBOfficial



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University of the Philippines Los Baños

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UNIVERSITY OF THE PHILIPPINES LOS BAÑOS HORIZON



Official Community Newsletter of UP Los Baños 2017-02

Sen. Richard Gordon commencement speaker



Hon. Richard "Dick" J. Gordon, senator of the Republic of the Philippines, is the guest speaker at the 45th Commencement Exercises of UPLB on June 24, 4:00 PM, at the DL Umalil Freedom Park. A total of 2,454 students will receive their certificate, bachelor's, master's, and doctorate degrees during the ceremonies. Senator Gordon was elected to the 17th Congress in 2016 and had also served a six-year term as a senator from 2004-2010, during the 13th and 14th Congress. He is an alumnus of UP Diliman who obtained his Bachelor of Laws in 1976. He had authored a number of important pieces of legislation

some of which are: Election Law, Tourism three economic zones Freeport in La Union, Bataan, and Camp John City, National Disaster Law, Veterans Ben Patent Law. Prior to becoming Senator Gordon had of Olongapo City (1993), during which the city into a "model cleanliness and discipline chairman of the Subic Bay Authority (1992-1997) transformation of the Base to the Subic Bay that created hundreds and generated billions As secretary of to



PCC chair Arsenio Balisacan is GS hooding ceremony speaker

Dr. Arsenio M. Balisacan, chairman of the newly created Philippine Competition Commission (PCC) and professor at the UP School of Economics (UPSE) is the guest of honor and keynote speaker at the Hooding Ceremony and Recognition Program of the Graduate School on June 23, 6:00 PM, at the DL Umalil Freedom Park. A total of 323 students will receive their graduate degrees; 61 of whom will receive the academic regalia signifying the completion of their PhD. Top MS and PhD students will also be given recognition during the program.

Dr. Balisacan is an expert on poverty, food security and agricultural and rural development in Asia. As PCC chairman, he is at the helm of the office that is mandated to promote economic efficiency and ensure a fair and healthy market competition in the country. He earned his MS Agricultural Economics in UPLB in 1982 and his PhD Economics from the University of Hawaii in 1985. He was dean of UPSE (2010-2012) prior to becoming the secretary of socio-economic planning and director-general of the National Economic and Development Authority (2012-2016).

He was also Southeast Asian for Graduate School in Agriculture in planning (April and for policy, planning (February-May 2003) of the Department of the National and Technology Alumni Association distinguished alumnus and www.ecoa.upd.edu

University educators are top MS, PhD graduates

Two university faculty members have walked their talk on academic excellence as they emerged as UPLB's top graduates in the masters and doctorate levels for this year. They are Michael Vincent O. Laurio, MS Chemical Engineering and

an instructor at the UPLB College of Engineering and Agro-industrial Technology (CEAT), and Rowena R. Sazon, PhD Environmental Science and an associate professor of Ramon Magsaysay Technological University University educators: page 8



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JANUARY 2017

para sa business permit processing, idinaos

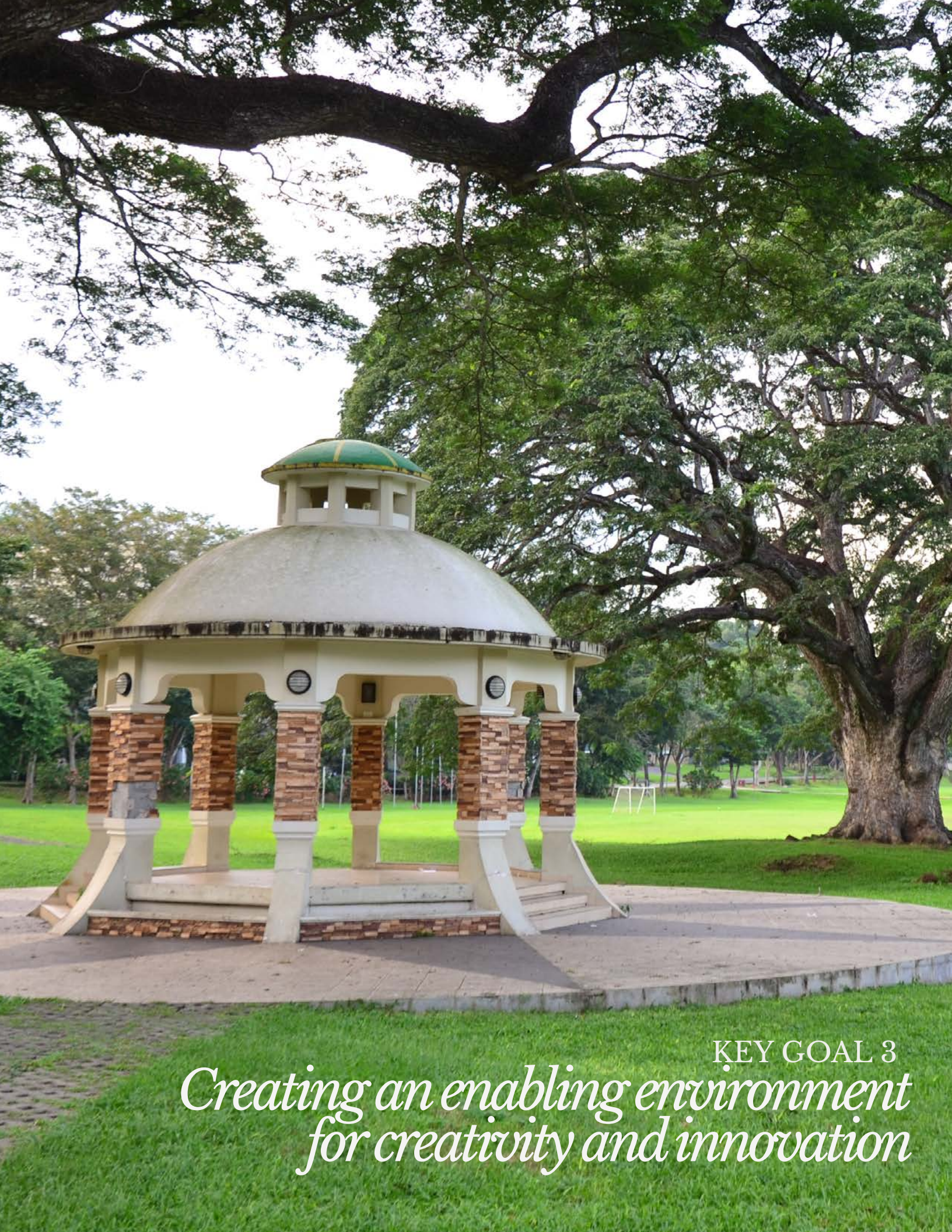


Exhibits

We have increased UPLB’s participation in annual trade shows and exhibits beginning in 2015 to showcase our technologies and expertise to the public. We also participate in the annual National Agriculture and Fisheries Technology Forum and Product Exhibition; National Biotechnology Week; and National Science and Technology Week.

In UPLB, we host the Wonderama exhibit on science and technology sometime July or August in time for the NSTW celebration. The week-long exhibit, called Syensaya, is produced in collaboration with members of the Los Baños Science Community Foundation, Inc. (LBSCFI) and is open to all students and the public in CALABARZON. In 2016, UPLB’s Chancellor was elected as the Vice President of the LBSCFI.

Trade shows/ exhibits	Purpose	Venue and date
Manila Bulletin’s Urban Agriculture Trade Show and Exhibit	Feature our products in agriculture and biotechnology (improved plant varieties, biological fertilizers, and innovative agricultural systems)	Trinoma Mall, Quezon City, February 27-28, 2016; Market! Market! Mall, Taguig, September 17-18, 2016
DOST’s National Invention Contest and Exhibit	Showcase our latest technologies and innovations with Edible Landscaping as the framework	SMX Convention Center, Mall of Asia, Pasay City, July 28-31, 2016
CALABARZON Technology Transfer Day and Investment Forum	Increase our regional presence by featuring biological fertilizers developed by BIOTECH; and products and technologies from IPB	Batangas State University Main Campus, Batangas City October 7, 2016
FIESTA or Farmer and Industry Encounter through Science and Technology Agenda	Give farmers from Southern Tagalog access to the University’s agricultural innovations	Bacoor Government Center, Bacoor, Cavite November 21-24, 2016
Regional Symposium on Research, Development, and Extension Highlights	Present on-going research and extension initiatives to the public	Bacoor Government Center, Bacoor, Cavite November 21-24, 2016



KEY GOAL 3

*Creating an enabling environment
for creativity and innovation*

Improved resource mobilization for research and public service

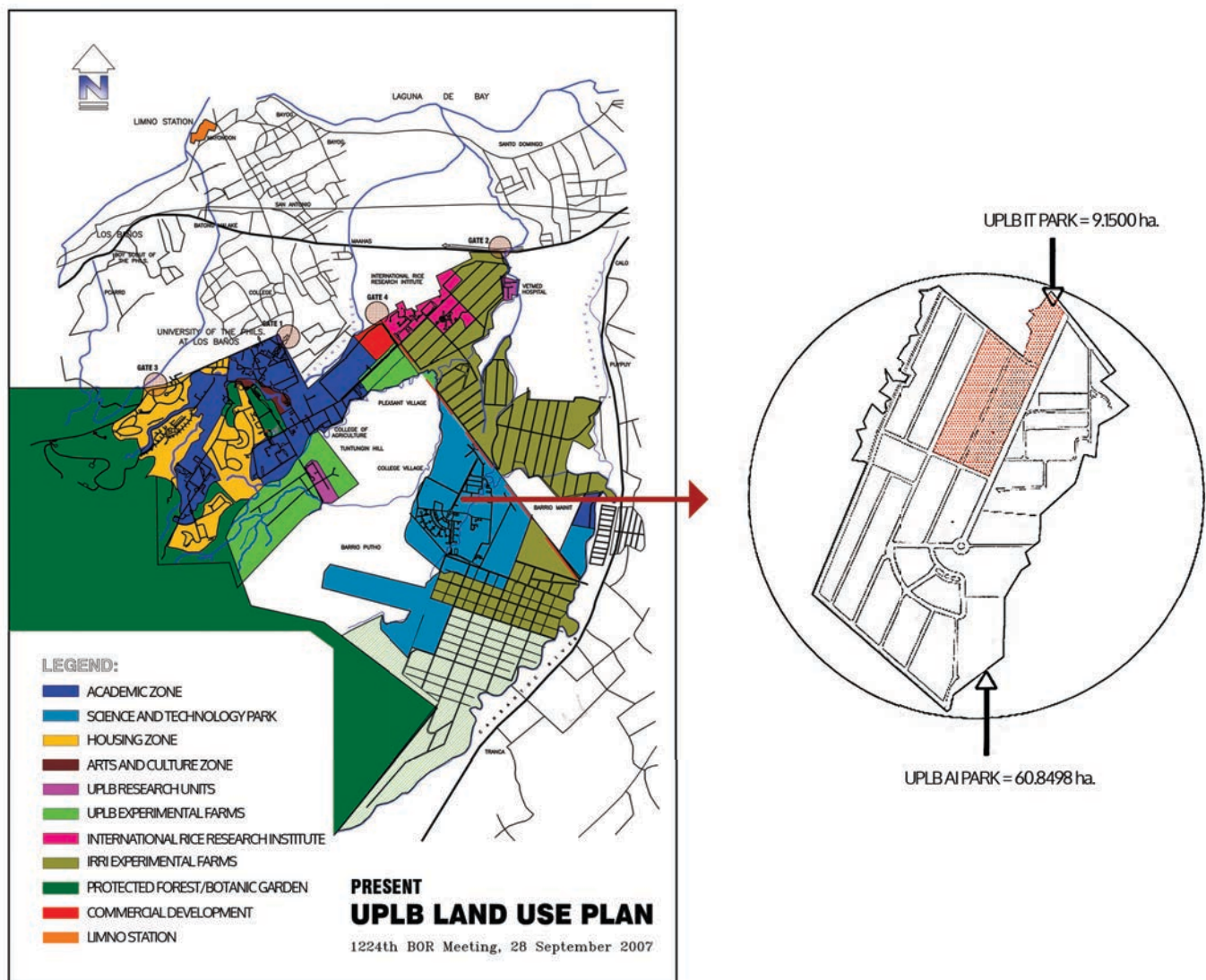
Making resources contribute towards revenue generation

UPLB Agro-Industrial and Information Technology Parks

On March 4, 2016, we signed a registration agreement with PEZA designating the 60-hectare Agro-Industrial Park and the 10-hectare Information Technology Park as special economic zones (SEZ). We issued Administrative Order No. 159 on May 10, 2016 to create a committee that will oversee the development of the zones' master plan.

The initiative to establish the SEZs in UPLB was started by then Chancellor Luis Rey I. Velasco's administration in March 2007 and continued by Chancellor Rex Victor O. Cruz, and the current administration.

The SEZs are located near UPLB research centers, academic buildings, and the International Rice Research Institute (IRRI). It will be on a strategic part of the UPLB campus near an area where a train station of the Philippine National Railways (PNR) commuter line that will link Manila and Los Baños will be located.



Technology Business Incubator

The emergence of business accelerators or business incubation enterprises in the Philippines caused a boom of business startups that have little or no experience in business development.

A proposal to refurbish the UPLB-DOST TBI is underway to increase the functionality of the office and produce a higher successful exit rate for graduating startups. In line with this, we developed modules on business management and development training programs, team creation, and pitching activities that will be offered to the startups under the new “UPLB-DOST TBI Co-maker Space.”



UPLB Intellectual Property Rights Applications

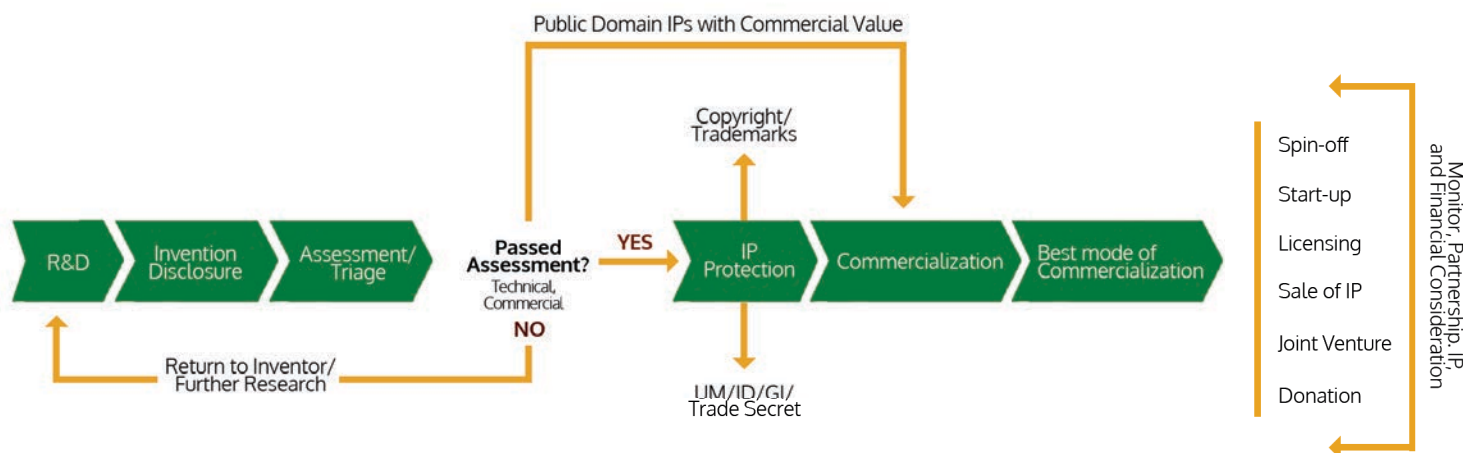
We also stepped up efforts to protect intellectual property and have nine pending patent applications issued from 2014 to 2017. During the period, we also filed an application for a utility model and an industrial design, eight (8) for plant variety protection, 14 copyrights, and 16 trademarks.

Intellectual Property Management

The CTTE Intellectual Property (IP) framework details the processes of IP management in UPLB. Technologies generated from research projects are prioritized for commercialization based on the type of IP and status of IP protection. The framework is composed of three stages: IP creation, IP protection, and IP commercialization.

Under the new framework and protocol, IP creation starts with research and development, from proposal writing, prior art search and review of literature, up to the disclosure of inventions or technologies. The second stage involves assessment of the technology disclosure based on technical considerations and commerciality, and to determine the appropriate IP protection for the invention--patent, utility model, industrial design, or trademark. The invention is then assessed for market potential and the most appropriate commercialization path. We have also engaged in various seminars to orient both staff and external audiences on IPR laws and procedures.

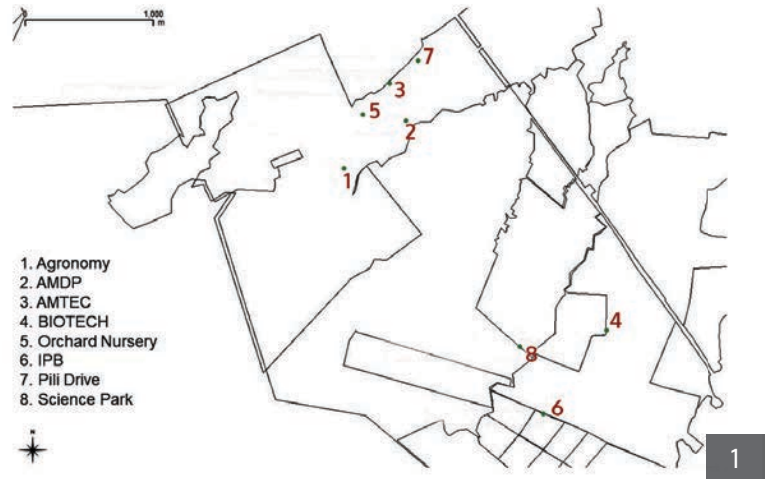
IP Marketing, Monitoring, Feedback Mechanism, and Reporting



Water rights application

In order to gain control over and better manage our water resources, we applied for water rights in over eight sites in the campus. The water sites are at the Orchard Nursery, Agronomy, BIOMECH, AMDP building, AMTEC building, Pili Drive, IT Park, BIOTECH, and IPB.

Water rights is a privilege granted by the government that we will use to regulate excessive water extraction. As an initial step, we installed digital flow meters at our pump stations in these eight sites to gather data on water flux, which is required in the application for water rights.



Business mapping

We oversaw the judicious use of University resources such as land and facilities. We generated income from our leased land and facilities for sustainable management and to bolster the University's funds.

Business concessionaires, and land and building leases

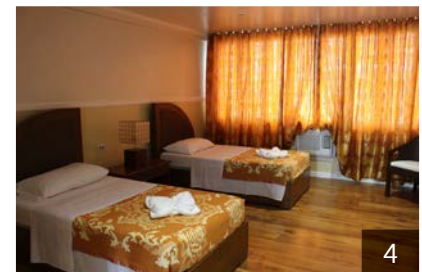
Every month, we generate about PhP 1,312,934.30 from land holdings, buildings, and facilities covered by business leases that the University has entered into.

The Alumni Hostel, a project of the UPLB Alumni Association, generates income for the University while providing a "home" for the alumni. Placed under the management of the OAR in 2015 and operational in 2016, the hostel has earned PhP 294,606.26. The earnings have been used to improve the facilities of the Alumni Center.

The Obdulia F. Sison Hall (OFSH), formerly the CEC, a hostel and conference center/training venue, hosts some of the University's exchange students. The OFSH generates an average of PhP554,385.41 per month. BAO has completed major upgrading of the OFSH facilities.

Laguna land grant Citronella production

To increase efficiency in producing pure essential oil from Citronella at the Laguna Land Grant, we repaired the production plant in the site. Citronella oil is prized especially by spa businesses and manufacturers of insect repellants and scented products. From 2014 to 2017, the project was able to produce 195.675 liters of Citronella essential oil worth PhP 275,365. This amount partly helps in running the LGMO.



(1) These are the eight sites in the campus where UPLB has applied for water rights. (2) The Obdulia F. Sison Hall (OFSH) houses conference halls and rooms for transient residents and is one of the important generating units of UPLB. (3) The refurbished reception desk of the OFSH. (4) A Guest room at the OFSH. (5) The Alumni Center also houses the Office of Alumni Relations (OAR) for proximity to the Hostel and better coordination with the alumni who regularly hold meetings at the conference room.

Enhanced administrative efficiency through streamlined interdepartment and cross-unit processes

The University Information System

We implemented the eUP Project in UPLB progressively to manage the challenges that crop up with new ways of doing things. To facilitate the transition, we conducted trainings and dry runs in using the information system.

The three information systems (HRIS, FMIS, and SPCMIS) are now merged in <http://uis.up.edu.ph>. The fourth component is the Student Academic Information System (SAIS).



Human Resource Information System

The HRIS provides for a more efficient way for HR and employees to access records and information even across campuses.

As of 01 March 2017, we have updated the information of about **2,762 employees** in the HRIS. More than **2,500 (93%)** have already logged into the system.

Strategic Performance Management System

System for setting work targets and ratings for the Office Performance Commitment and Review (OPCR) and the Individual Performance Commitment and Review (IPCR) are filed through the SPMS.

A total of **697 employees** have participated in such trainings and seminars organized by HRDO.



Financial Management Information System

The FMIS consolidates all financial information generated and used by the Accounting, Budget, and Cash offices in UPLB.

- automates the different functions;
- eliminates duplication and redundancy in entering and processing financial transactions;
- provides reliable and real-time information for decision making;
- provides timely and reliable reports.



Supply, Procurement, and Campus Management Information System (SPCMIS)

The SPCMIS aids in the generation and implementation of the Project Procurement Management Plan (PPMP) and the Consolidated Annual Procurement Plan (CAPP). The system is linked to the UPLB Budget Management Office to ensure that items for procurement have corresponding budgetary appropriations.

SPCMIS has made procurement more efficient and has ensured increased spending and budget utilization

	2015	2016
Number of Transactions	5,000	3,238
Contracts awarded vis-a-vis the Annual Procurement Plan	42.89%	82.38%

SPCMIS has made procurement more transparent

Procurement contracts through Public Bidding	57.96%	63.70%
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With a system that links the PPMP and the CAPP for the completion of the procurement process, we can easily monitor agency compliance with procurement rules. Further, the University can ensure that it can increase spending and utilization of its budget.



Student Academic Information System (SAIS)

SAIS is a student lifecycle data management system that encompasses admission application, graduation, and alumni tracking. It is integrated with other systems in eUP, specifically FMIS and HRIS, and with UPCAT Online and iLib.

SAIS was implemented in UPLB during the First Semester of AY 2016-2017. Its modules include Admissions, Registration, Student Records, Graduation, and Student Financials, which are now at 80 to 100% activation. Other modules such as Advisement, Curriculum, Contributor Relations and Financial Aid are partially activated and are being further enhanced.

Number one SUC in PhilGEPS compliance

UPLB is number one among the state universities and colleges in the country with more than 30 posted bid notices in terms of compliance to the Philippine Government Electronic Procurement System (PhilGEPS). PhilGEPS is the “single, centralized electronic portal that serves as the primary and definitive source of information on government procurement.”

According to <http://data/philgeps.gov.ph>, of the University's 102 notices posted from November 2016 to June 2017, 50.98 percent have complied with all the four documents for public biddings: the Bids and Awards Committee Resolution, Notice of Award, Purchase Order or Contract Agreement, and Notice to Proceed. According to the 2016 Revised Implementing Rules and Regulations of the Government Procurement Reform Act, PhilGEPS was created to promote transparency and efficiency.

Homegrown systems for streamlined processes

Procurement for Research Projects

We created the Supply Property and Management System to cater to procurements made under the Supplemental PPMP and Supplemental Annual Procurement Plan, in particular for internally and externally funded research projects. With this, we reduced procurement cycle time by reducing bureaucratic stages of PPMP approval.

Cashier's Office Payment Appointment System

The ITC developed the Payment Appointment System for the Cashier's Office to facilitate payment of registration fees and to help reduce the queue and waiting time of those paying at different collection centers. An average of over 7,000 students use the system every registration period.

Improved registration systems for students

OSA developed and implemented the first queuing system in the University on July 20, 2016. The queuing system allows the University to manage the influx of transactions, particularly during enrollment when thousands of students apply for student loans. Moreover, the queuing system allows us to quickly generate reports on number of clients and on average serving time.

To compliment registration services, OSA also developed an SMS trunk line so students may check their own queue numbers. This allows students to estimate a schedule/time to carry out their business. We also use our SMS trunk line as a feedback mechanism on OSA's services.

SMS Cash Notification Alerts for Employees

Project SARAI has shared to the University the use of an SMS system managed by ICS, which allows UPLB to send notifications/advisories to the mobile phones of UPLB employees regarding their salaries, reimbursements, and other deposits in their ATM accounts.

Cashier's Office Receiving Counter

The Cashier's Office now uses the Receiving Counter System to quickly track and determine the status of payrolls and payment vouchers.

Research and Extension Systems

OVCRE developed the Integrated R&E Information Management System (OVCRE IRIMS), which now consolidates all R&E data, including REPS, research project monitoring, scholarly outputs of faculty and REPS, and extension activities. Aside from R&E-related data, OVCRE also streamlined some internal processes through the OVCRE Document Tracking System, Inventory Management System, and Office Supplies Inventory Management System.

Student Housing Online Appointment System

UHO developed and started operating an online appointment system for students to reserve slots in the dormitories on November 25, 2016. The system now allows students to fill out the form and submit these online. UHO, in turn, can advise or notify students accordingly.

Utilities Billing and Monitoring System

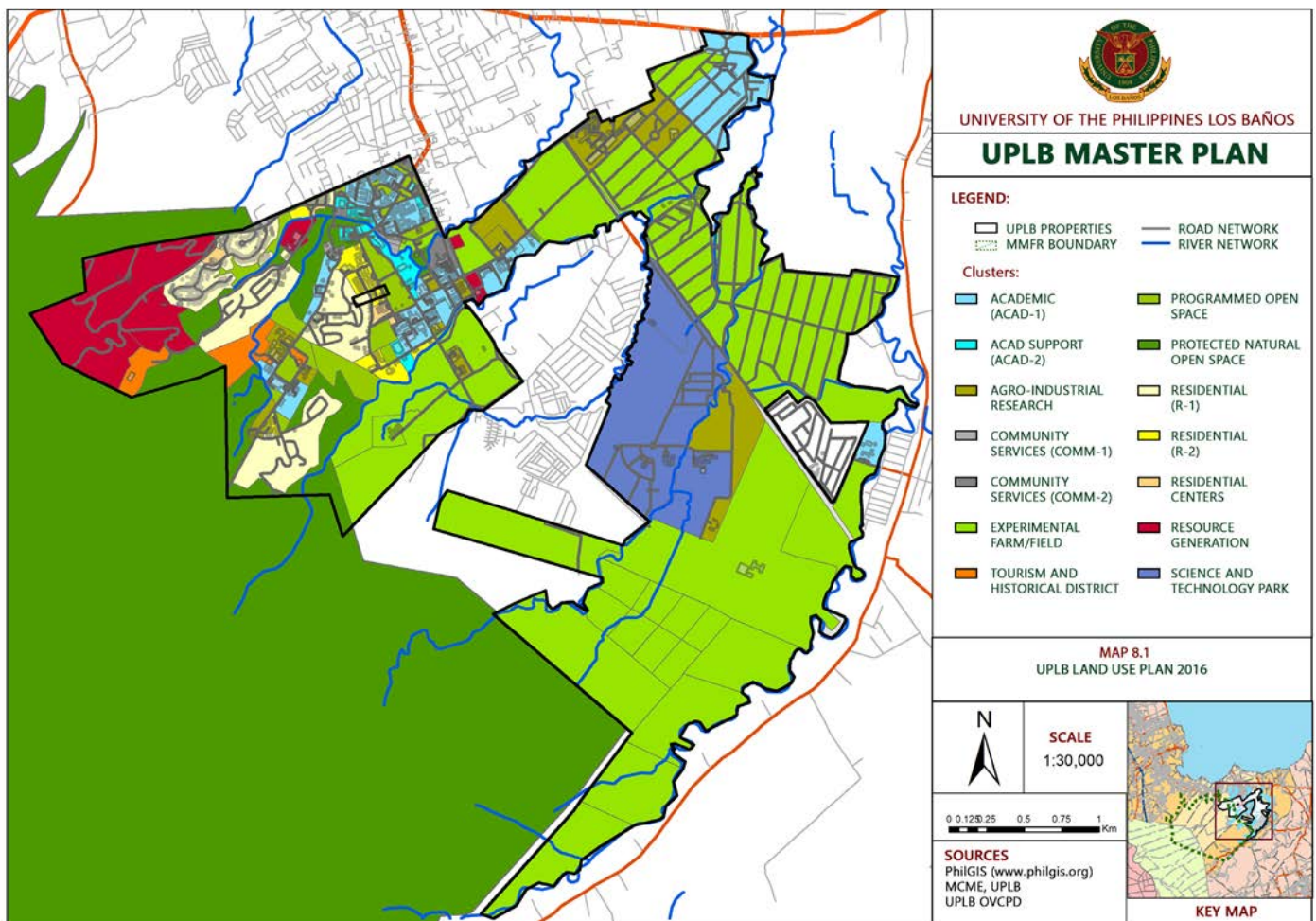
The OVCPD developed a new system for utilities billing and monitoring of payments called Sustainable Application of Versatile Electronic System of Billing of Electricity and other Utilities Software and Technology (UPLB SAVES BEST), which generates bills, prints receipts, and reports to show utilities consumption, and payables and trends. This system facilitates mandatory salary deduction and promotes transparency.

Creation of the University Planning and Maintenance Office (UPMO)

The BOR approved the creation of UPMO at its 1320th meeting on August 25, 2016, merging the Campus Planning and Development Office and the Physical Plant Maintenance and Services Office. The UPMO was created to provide better coordination between the planning and development and maintenance units of the University and to ensure efficient service to its constituents.

UPMO is responsible, among others, for preparing plans for any new construction and rehabilitation of physical facilities; rendering various engineering and maintenance services; and implementing policies governing the use of facilities.

Upgraded infrastructure and facilities

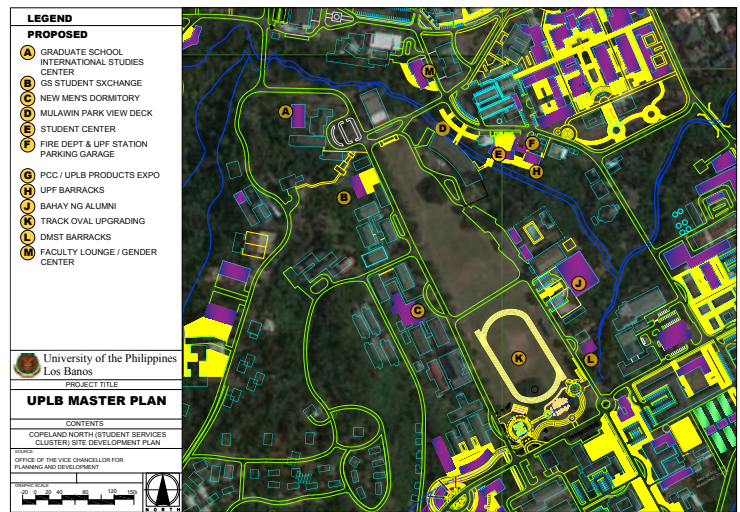
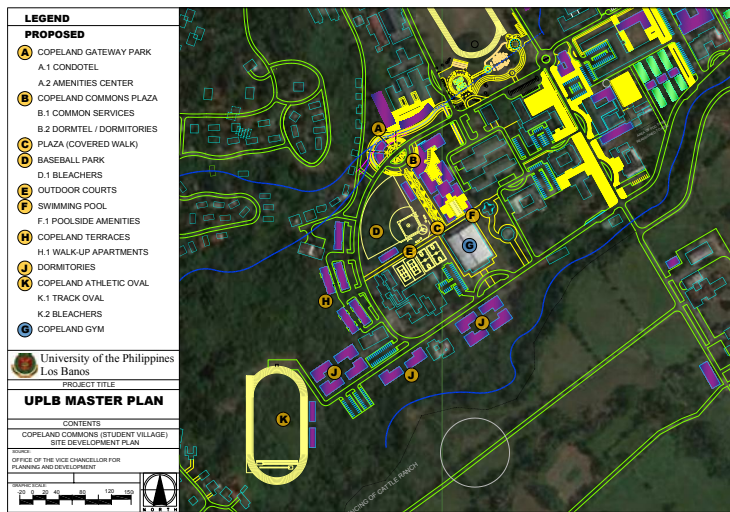
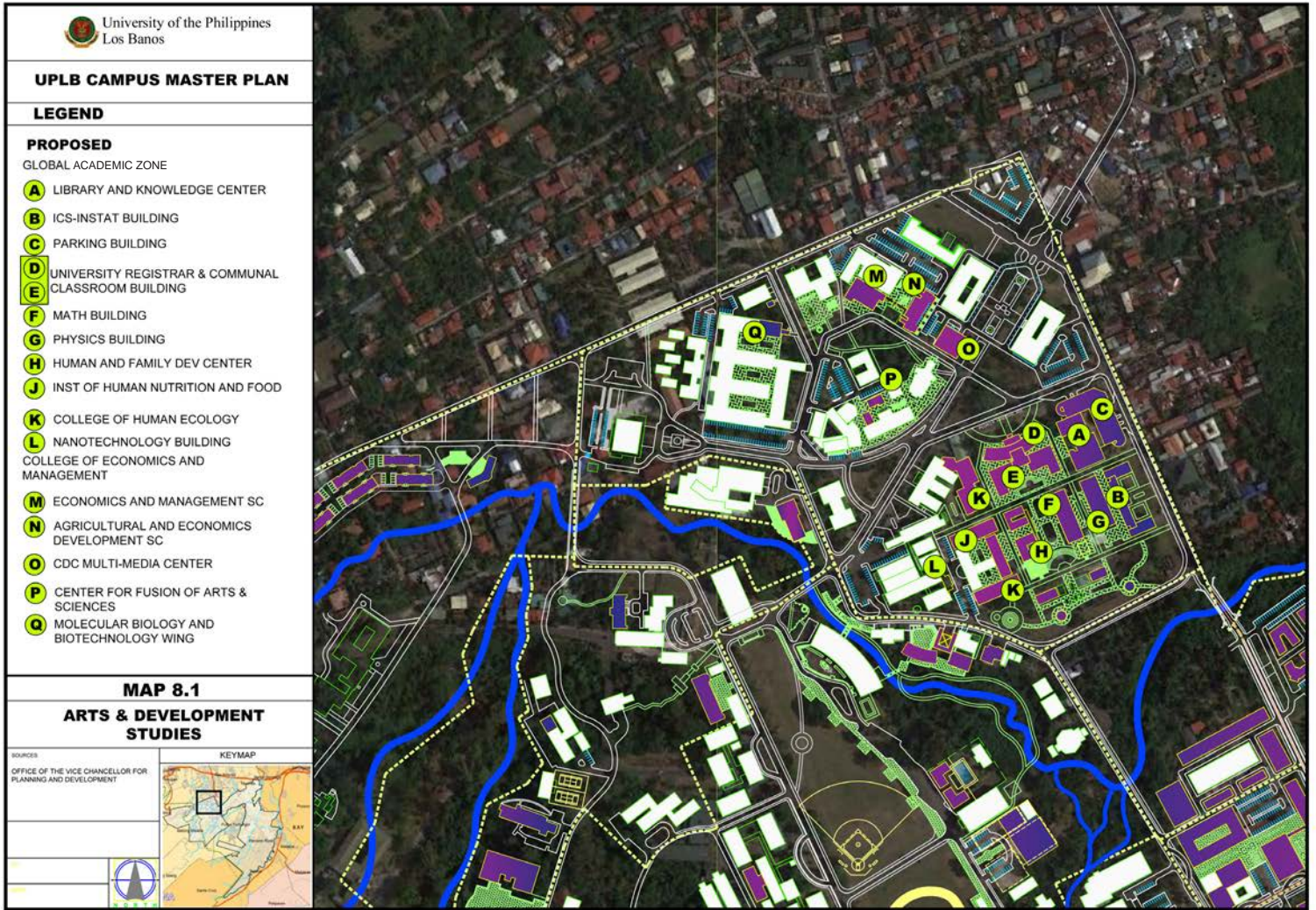


The UPLB Master Plan

UPLB, through the Office of the Vice Chancellor for Planning and Development (OVCPD), designed the UPLB Campus Master Plan (UPLBCMP) last June 15, 2017 as the main development blueprint for all eventual UPLB landscape and infrastructural development. The design is cognizant with projections on increasing student population, the need to upgrade academic and research facilities to transform UPLB into a globally competitive research and graduate university, and protect the MMFR and the environment.

The UPLBCMP divides the campus into different complexes such that buildings and other facilities are grouped based on function and use. One highlight of the master plan is the Global Academic Zone, a seven-hectare zone that will house the new University Library and Knowledge Center, communal classrooms, and the OUR, as well as several institutes of the University. Another one is the Copeland Commons where dormitories, a condotel for the staff, the Copeland Gym, the Copeland Athletic Oval, and sports facilities will be located. Still another cluster is the Copeland North Student Services Cluster where the Graduate School International Studies Center, currently under construction, is located.

As of 2017, PhP83 million has already been allocated for the construction of the Communal Classroom Building and the OUR renovation at the Global Academic Zone. The same amount is expected to be allocated for the said facilities every year in the next two years.





Infrastructure development

Infrastructure development is an important requisite of global competitiveness, and the University has taken an aggressive stance in building world-class infrastructure and facilities for this purpose.

We administered 87 infrastructure projects that are in various stages of development or completion. As of July 2017, the big-ticket projects that we have completed include the following: Phase 1 of Philtrop Center, REDREC building, and Phase 1 of the UPLB Corps of Cadets building. We installed in some of our buildings new electrical pad mounted transformers that are suited to the voltage requirement of equipment that we are currently using.

Other on-going infrastructure projects include the Graduate School International Students and Cultural Center, the three-storey Math Building, the two-storey UPRHS Senior High School Building Academic Wing, and the rehabilitation of the Agricultural Economics Building.

Another important project is the rehabilitation and upgrading of 13.8KV overhead distribution lines, which is guaranteed to improve power supply in the campus and put a stop to brownouts that are caused by tree branches falling on or grazing against bare distribution lines.

In addition, there are still some infrastructure development projects in the pipeline already with respective budget allocations. A few others have already gone through bidding, design, and mobilization procedures. These projects include various sports complex facilities that will rise in the Copeland Commons, the CEM multi-purpose building, condotel for faculty and staff, University Registrar and Communal Classrooms building, the Controlled Environmental Research Facility, Philippine National Collection of Microorganisms, and the National Plant Genetics Research Laboratory.

We have also allocated funds to rehabilitate and improve the facilities of our restrooms and our small classrooms, which we project to cost around PhP 312.5 million.

In compliance with B.P. 344 requiring buildings to provide facilities for persons with disability/ies, UPLB launched university-wide constructions of ramps, mechanical lifts, and PWD toilets in important buildings/ facilities such as the UPLB Copeland Gymnasium (Phase V, Wing B) and driveway and parking lot; University Health Service; DL Umali Hall; Math Building; Postharvest Horticulture Training and Research Center; Philippine Tropical Science Center; ADSC Old Swine Building; Industrial Engineering Building; BM Gonzalez Executive Parking Area; Bee Analytical & Training Laboratory; Proposed Animal Probiotics Laboratory Annex; and Makiling Film Laboratory. Similar renovations are ongoing in other colleges, dormitories, and the proposed UPRHS Alumni Building.



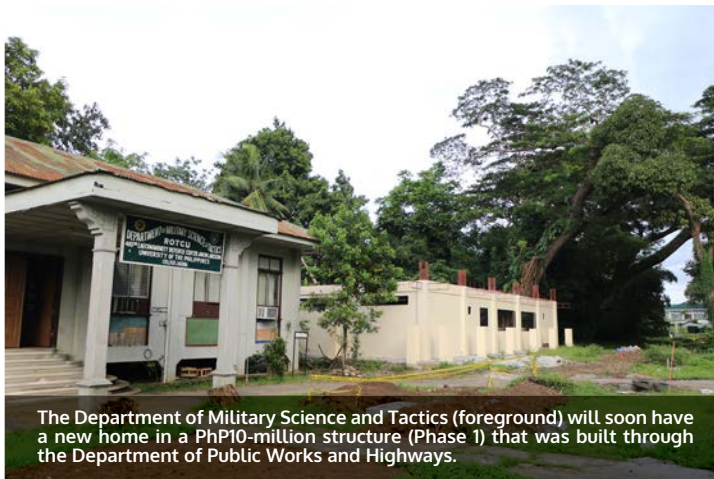
(From left to right) Dr. Isabelita Pabuayon, dean of the College of Economics and Management; Senator Juan Miguel Zubiri; Hon. Francis C. Laurel, a member of the UP Board of Regents; and Chancellor Fernando C. Sanchez, Jr. lead in the ribbon cutting to formally open the Rural Economic Development-Renewable Energy Center on June 14, 2017. Sen. Zubiri made it possible for government funds to be allocated to build the first phase of the structure while the second and third phases were funded by the UP System.



2



3



The Department of Military Science and Tactics (foreground) will soon have a new home in a PhP10-million structure (Phase 1) that was built through the Department of Public Works and Highways.



4

(1) The groundbreaking ceremony for two connected four-story buildings of CEM, to be named Economics and Management Studies Center (EMSC) and Agricultural and Economic Development Studies Center (AEDSC), held during the 38th anniversary celebration of the College on July 27, 2017. EMSC, which is worth PhP 90 million and AEDSC, which is worth PhP 100 million, are funded under the DBM-2016 General Appropriations Act. The infrastructure projects of UPLB are under the Office of the Vice Chancellor for Planning and Development (OVCPD) headed by Dr. Marish Madlangbayan.

(2) One of the new pad-mounted transformers that were installed in old UPLB buildings, for a two-pronged approach to extend the usability of the buildings. Installing the new transformers will ensure that these buildings will not become fire hazards as they are made to house high capacity laboratory equipment and so that UPLB can continue to procure modern equipment while waiting for new buildings to rise.

(3) The Philippine Center for Tropical Forest Science (Phase 1)

(4) The groundbreaking ceremony of the Graduate School International Student and Cultural Center Building, held on Dec. 2, 2015 was attended by UP President Alfredo E. Pascual, Vice President for Legal Affairs Hector Danny Uy, Chancellor Fernando C. Sanchez, top officials of the Nagoya University of Japan, namely: President Seiichi Machuo, Trustee Katsuya Ichihashi, Satellite Campus Institute Director Fumio Isoda, and Dean Kazuhito Kawakita of the Graduate School of Bioagricultural Sciences. They were also joined by Dr. Cristino M. Collado, president of the Nagoya University Alumni Association-Philippines.



An architect's perspective of the PhP 20.34 million 2-storey UP Rural High School (UPRHS) Senior High School Building Academic Wing, Phase 1



Inauguration of the CDC Roof Deck



Inauguration of the CFNR Student Plaza



Improved dressing rooms at the DL Umali Hall



Improved Legal Office

MAJOR INFRASTRUCTURE PROJECTS COMPLETED AS OF JULY 2017

APPROVED BUDGET
(in Pesos)

1	Re-roofing of UPLB Copeland Gymnasium	4,064,127.13
2	Installation of New Pad Mounted Transformers at BioSci, PhySci, Agronomy & Humanities buildings	7,871,869.60
3	Rehabilitation of DL Umali Auditorium (Phase I)	9,391,288.18
4	Conversion of Classroom into Computer Laboratory, 4th Floor-Rm 410, CAS Annex I	992,685.82
5	Roofing on Existing Concrete Roof Deck, CDC	5,417,718.40
6	Repainting of Exterior Walls, Waterproofing of Roof Slab and Parapet Wall of CEAT Building A	999,434.06
7	Rehabilitation of the Annex Building and Upgrading of Laboratory Facilities, Phase II, PHTRC, CAFS	6,300,000.00
8	Installation of 750 KVA 3 Phase, 60HZ, Pad Mounted Transformer, CEAT Building B	1,543,360.98
9	Rural Economic Development and Renewable Energy Center (REDREC), Phase II, CEM	5,999,882.56
10	Philtrop Center, Phase I	16,000,000.00
11	Installation of KWHR Meters, various UPLB buildings	4,007,981.59
12	Replacement of Roof, Repair of Roof Eaves and Ceiling Finish, UPLB-CVM-VTH Building	9,000,000.00
13	Improvement of Legal Office, OC	2,000,000.00
14	Animal Probiotics Laboratory Annex Building: Pilot Testing Plant, Phase I	4,900,000.00
15	Installation of Electromagnetic Flow Meter, Air Release Valve including Appurtenant Works	3,530,833.34
16	Rural Economic Development and Renewable Energy Center (REDREC), Phase III, CEM	10,249,140.06
17	UPLB Corps of Cadets Building Phase 1	10,000,000.00
18	CFNR Plaza	1,300,000.00

TOTAL 103,568,321.72



Innovation and Technology Hub and One-Stop Shop, a repository of UPLB products and technologies, a venue for collaboration and inception of new and emerging concepts, innovations, and technologies



Groundbreaking ceremony of the UPLB Innovation and Technology Hub



The OUR and Common Classrooms Building is a three-story facility that will house the Learning Commons, meeting rooms, a gallery, a faculty lounge, and offices.

ON-GOING INFRASTRUCTURE PROJECTS AS OF JULY 2017

APPROVED BUDGET (in Pesos)

1	Construction of Three-Storey Mathematics Building, UPLB	60,000,000.00
2	Repair & Rehabilitation of Annex Laboratory Building (Phase I) Department of Forest Products and Paper Science (DFPPS), CFNR	1,993,804.00
3	Makiling Film Laboratory, Phase I, Jose R. Velasco Ave., UPLB	6,800,000.00
4	Rehabilitation of Roof Structures, IRNR, FBS Building, CFNR, UPLB	4,001,925.35
5	Conversion of Roof Deck into CINTERLABS Phase I, 4th Floor, IMSP Building, CAS	9,090,909.99
6	Rehabilitation of DBVS-CVM Roof Including Replacement of Ceilings and Rewiring, Gregorio San Agustin Hall (E-5 Building), CVM Compound	11,355,925.15
7	Renovation of SPMO Central Storeroom, Rambutan Road, UPLB	1,832,250.00
8	Design and Construction of the 2-Storey UP Rural High School (UPRHS) Senior High School Building Academic Wing, Phase I	20,338,983.00
9	Repair of NCPC Building Facilities, NCPC Compound, UPLB	5,538,183.35
10	Improvement of Former NCPC Old Building for CIRDUP, IAE, CEAT, UPLB Campus	3,062,959.20
11	Improvement of Former NCPC Old Building for LWRD/AFSD Old Area, NCPC, Pili Drive, UPLB	6,530,781.00
12	Rehabilitation of Agricultural Economics Building, CEM Compound, Jose R. Velasco Ave. Road, UPLB	11,362,233.39
13	Supply, Delivery, Installation, Testing and Commissioning of Air Conditioning Units- CVM-ADSC Library, Gregorio San Agustin Hall, CVM-ADSC Communal Building	1,294,684.59
14	Rehabilitation and Upgrading of 13.8KV Overhead Distribution Lines, Phase II	11,132,332.42
15	Establishment of the Graduate School International Student and Cultural Center	69,700,000.00
16	Construction of CHE-CDL extension, Dept. of Human and Family Development Studies	4,556,363.63
17	Conversion of International House to Guest House	6,363,636.36
18	CEM Plaza	6,000,000.00
19	UPLB Guesthouse	2,157,507.90
20	Innovation and Technology Hub	8,000,000.00

TOTAL 243,112,479.33

**INFRASTRUCTURE PROJECTS
IN THE PIPELINE, JULY 2017**

**APPROVED BUDGET
(in pesos)**

1	Construction of the UPLB Nanotechnology Center	22,000,000.00
2	Construction of the Controlled Environmental Research Facility	66,400,000.00
3	Construction of the Philippine National Collection of Microorganisms	60,000,000.00
4	Construction of the Philippine Genome Center for Agriculture	30,000,000.00
5	Construction of Sports Complex Facilities	160,000,000.00
6	Construction of CEM 4-Storey Economics and Management Center	90,000,000.00
7	Construction of Multi-Purpose Building for CEM, UPLB	100,000,000.00
8	Construction of the Philippine Tropical Forest Science Building Phase 2	32,000,000.00
9	Extension, Rehabilitation and Renovation of the Agricultural and Bio Process Division Building	22,000,000.00
10	Design of Renovation of Laboratories for the PL480 Project: Profiling of Economically Important Disease of Swine and Cattle in the Philippines for Enhanced Disease Management Surveillance and Control	33,000,000.00
11	Construction of the State of the Art Nursery Project by DENR	24,000,000.00
12	New Building for the National Plant Genetics Research Laboratory	60,000,000.00
13	Condotel for Faculty and Staff	100,000,000.00
14	Food Processing Research Center	60,000,000.00
15	Renovation of CEC	25,000,000.00
16	Rehabilitation of NPGRL Phase 1	6,000,000.00
17	Renovation of SU Building	27,500,000.00
18	New SESAM Building	42,000,000.00
19	LED Wall Display with Mounting Structure	9,478,448.34
20	Construction of University Health Service Extension Building	40,000,000.00
21	Establishment of the Center for Agricultural Machinery Testing and Evaluation Center	15,000,000.00
22	Construction of the University Registrar and Communal Classroom Building	83,000,000.00
23	Completion of the MBB Building of IBS, CAS	10,596,000.00
24	Modernization of the UPLB MNH Building	10,596,000.00
25	UP Professional School for Agriculture and the Environment	20,000,000.00
26	Installation of UPLB Building Signages	4,000,000.00
27	Construction of Orchid Laboratory	25,000,000.00
28	Construction of Horticulture Knowledge Center Building	25,000,000.00
29	CAS Animation Studio	8,000,000.00
30	Reroofing of the AG Samonte Hall	3,579,701.70
31	Renovation of IPB Laboratories and Offices	8,000,000.00
32	Waterproofing of Concrete Deck of Main Bldg of BIOTECH	7,200,000.00
33	Renovation of Central Experiment Station	6,000,000.00
34	Renovation of Operations Room (AG Samonte Hall)	2,000,000.00
35	CA- FCN laboratory	6,053,698.43
36	Repainting of Library Building	1,500,000.00
37	Food Science Plant	10,000,000.00

TOTAL 1,254,903,848.50



The Philippine National Collection of Microorganisms will house a collection of the microbial wealth of the Philippines. It will have adequate space and security provisions against fire, earthquakes, flood, and other natural and man-made disasters



The National Plant Genetic Resources Laboratory, a germplasm conservation and management facility, will ensure the availability of plant genetic resources for generations to come.



The Nanoscience and Technology Facility, the home of UPLB's Nanotechnology Program, will soon rise between Wings A and C of the Physical Sciences Building.



The Philippine Genome Center Agriculture, Livestock, and Fisheries Building will have laboratories, a controlled environment, BSL-2 greenhouse plant growth facility, and offices.

Small classroom and restroom renovation project

We are renovating small classrooms in four colleges and at the Interactive Learning Center as well as restrooms in six colleges and in various other units. The budget allocated for this project is PhP 320 million.

SMALL CLASSROOMS

UNIT	COMPLETED	ONGOING	IN THE PIPELINE
CAS	123	2	9
CAFS	34	4	65
CEAT	15	1	13
CFNR	17	-	-
ILC	4	-	-
TOTAL	193	7	87

RESTROOMS

UNIT	COMPLETED	ONGOING	IN THE PIPELINE
CAS	18	2	30
CEAT	24	3	11
CFNR	1	9	6
CAFS	17	2	36
CVM	4	-	-
CDC	-	12	-
Other Units	12	7	6
TOTAL	76	35	89



1) Students taking up crop science courses are now enjoying the renovated classrooms at Nemesio Mendiola Hall, CAFS.
 2) New faculty rooms have been constructed at the new wing of the Institute of Biological Sciences.
 3) DL Umali Hall concert goers and theater aficionados have been using this new and clean restroom at the university theater.
 4) This restroom at the Institute of Computer Science is one of the 76 completed new restrooms throughout the campus.



Improving power supply in UPLB

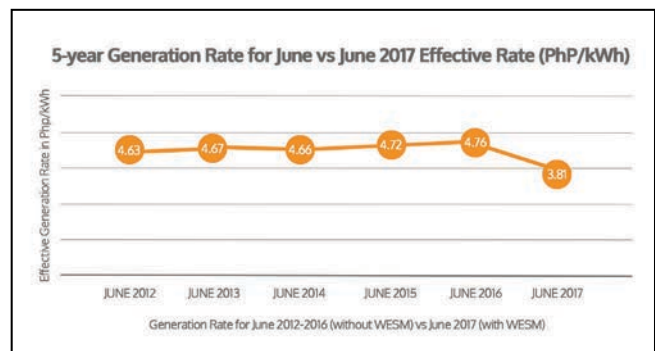
Wholesale Electricity Spot Market (WESM) membership

For many years, UPLB has sourced its power supply solely from Aboitiz Power Renewables, Inc. (APRI). Under the setup, UPLB pays for the minimum contracted quantity even if it consumes less and is penalized with a higher rate if it exceeds the maximum. UPLB has been exceeding its maximum contracted energy and has been paying 4.80 PhP/kWh for the energy consumed in excess of the maximum contracted energy.

As a solution, the University applied for direct membership to WESM to ensure power supply security and at the same time, take advantage of the opportunity to sell back unused capacity to the market. This setup also gives UPLB the flexibility to buy its power supply, either from WESM when prices in the market are low (compared to the contract price, which is currently 4.0 PhP/kWh), or from its supplier when prices are higher.

WESM direct membership for UPLB was approved by the UP BOR at its 1324th meeting on January 26, 2017, and by the Philippine Electricity Market Corporation (PEMC), the market operator of the WESM, on May 25, 2017.

Only within the first month upon membership in WESM in June 2017, UPLB was able to save roughly PhP 1.1 million.



Back-up power for continuous operations

We spent PhP 13.4 M to acquire eight new units of generator sets and almost PhP16 million to repair five units to ensure back up energy sources in case of power interruptions.

The eight new units, which have soundproof canopies and sound-attenuating enclosures for noise reduction, and are weather protective, have been deployed in various research and instruction units.

Repaired and for final commissioning are two generator units (300KW) at the Silangan Substation in V. Ela St., two units (179 KW) at the two pumphouses, and 1 unit (300KW) at the Kanluran Substation in J. Velasco Ave.

Infrastructure projects for improved electrical supply

We upgraded overhead distribution lines at the upper campus or CFNR by replacing wooden poles with concrete poles and bare cables with insulated cables. Power outages in the area are often caused by tree branches falling on the bare cables.

We have improved the street lights inside the University by replacing 400 units of 250W sodium vapor lights with 120W LED lights, which are more efficient in terms of lumens (brightness) and life span. With this we are able to save approximately 15,000 kWh per month of consumption.

Meanwhile, we have replaced dated 110V with 220V transformers, which have not been done since the 1950s. The new transformers provide the standard voltage specification for our equipment and appliances at BioSci, PhySci, Agronomy and Humanities buildings, and CEAT Building B.

IP-based power monitoring for UPMO

We installed kWh meters in key UPLB buildings to monitor and manage electricity use. Moreover, with this, we are able to monitor power consumption remotely at the Electrical Services Section of the UPMO using the Internet. The system also has an alert notification function, which can warn us of abnormal operations like power surges. It also has emergency remote power shutdown capabilities for additional safety.

Internet access

We have made a “giga” leap in our Internet connection. From 103 Megabits per second (Mbps) in November 2014, the University’s Internet bandwidth has increased by 2,000%. It is now at 2.155 Gigabits per second (Gbps).

This is a result of gradual bandwidth increase that UPLB acquired from its Internet service providers, namely: DOST-ASTI, ConvergeICT, and PLDT. The project was supported by the UP System through the eUP Information Systems.

Meanwhile, UPLB invested millions of pesos to improve the infrastructure systems that would optimize UPLB’s campus network connection. The goal of the five-phase IT infrastructure project is to upgrade the network equipment and future-proof the connections by changing the Fiber Optic Cables (FOC) from multi-mode to a more efficient single-mode-type fiber.

Meanwhile, our campus-wide WiFi System already has 71 enterprise-class access points installed at the Main Library, Student Union Building, and in the ten dormitories. Plans are underway for further upgrades with 183 more additional access points to be installed. Quite recently, the UPLB WiFi has been made accessible in 18 buildings not only in the lower campus, but also in the CFNR campus and the Agricultural and Life Sciences complex.

The Five-Phase IT Infrastructure Project

Phase 1 - Upgrading the core network equipment and improving the ISP-to-core network link. (Nearing completion)

Phase 2 - Upgrading the FOC, lower campus and telecommunication service entrance in buildings. (Started May 2017)

Phases 3, 4 & 5 - Improvement of upper campus, IPB/APEC, and Staff Housing, respectively. (Planning is on-going)

WiFi reach

Since 2014, we have upgraded Internet utilities throughout the campus and have made WiFi services already available at the **Agricultural Economics Building, CHE, UPF, Villegas Hall, IAS, CVM Admin Building, IFST and CEAT Complex, Engineering Science Building, EE Building, AMTEC, IE Building, BIOTECH Compound, CTTE (APEC Building), IPB Admin Building, IPB Module B & C Buildings, OAR/Alumni Center, UHS, CFNR Library, FBS Building.** We also installed WiFi hotspots at the **SU Building, BM Gonzales Hall/University Library, and 10 UPLB dormitories.**



Improved water supply

Various supply, delivery, installation, and electromagnetic flow meter, and air release valves are being installed in various UPLB locations. This project is enabling the University to monitor ground water flux and ensure more efficient use of water resources.

Roads and bridges

Our road network is getting much needed rehabilitation with the on-going construction of infrastructure projects under the General Appropriations Act for FY 2016 (otherwise known as RA No. 10717) of the DPWH. These improvements are meant to make academic facilities, research and experiment areas, and laboratories more accessible for students and constituents. The total cost of these projects is PhP 295 million.

- Rehabilitation of the IPB Road and its two bridges (PhP 55M)
- Construction of a vehicular road, walk and bike lanes along Pili Drive and Victoria Ela Extension (PhP 57 million)
- Construction of a two-lane reinforced concrete deck girder bridge over Molawin River connecting Victoria Ela St. and Victoria Ela Extension (formerly Rambutan Road), with pier and soil erosion mitigation program (PhP 67 million)
- Construction of the APEC Road connecting the IPB Road to the Gov. FT San Luis Road in Bay, Laguna (PhP24.70 million)
- The Mt. Makiling Ecotourism Road at the Forestry area of the campus has already been completed. A new concrete path now leads to Mudsprings in the Mt. Makiling trail. Phase 3 of the project, which constitutes the rest of the 5.46-kilometer trail to Agila Base, is underway. The Makiling Park Road (connecting Jose R. Velasco Avenue to Jamboree) had also been improved to ease travel to the trail.

PILI DRIVE WIDENING A project of DPWH, UP System and UPLB



University of the Philippines Los Baños
Office of the Vice Chancellor for Planning and Development



Two parallel roads, the old and the new, on Pili Drive will make driving through the stretch more pleasurable. A third road will also be constructed for bikers. Constructing these new roads took into consideration the need to preserve the iconic Pili trees. (PhP 57 million)



The IPB Road before and after construction (PhP 55 million)



The Mt. Makiling Ecotourism Road (Phase 3) will lead to the Agila Base.



Construction of the APEC road (PhP 24.7 million)



Construction of a bridge over Molawin River with soil erosion mitigation program (PhP 67 million)

Building, refurbishing, and re-equipping instruction and research laboratories

Since 2015, UPLB has mobilized and spent almost PhP 290 million for refurbishment and re-equipment of laboratories and classrooms. In addition to core funds, we were able to generate support from the UP System, government agencies such as the DA-BAR, the DOST and its councils, namely: PCAARRD and PCIEERD. We were also able to get support from international partners such as the USAID-Science, Technology, Research and Innovation for Development (STRIDE) Program, Tokyo University of Agriculture, South Korea-AFACI, and local private firms such as Del Monte Philippines.

College of Agriculture and Food Science (CAFS)

The Institute of Crop Science refurbished seven (7) of its laboratories and acquired new equipment with a budget allocation of more than PhP26 million. These are now being used for research and instruction in horticulture, agronomy, crop science, seed science/ physiology, biotechnology, and landscape maintenance, implementation, and tree management.

The Institute of Food Science and Technology refurbished 13 food chemistry, food microbiology, and food engineering laboratories and classrooms and acquired new laboratory equipment costing PhP1.505 million.

The BL2 Building at the Institute of Plant Breeding, where GM crops are developed and maintained, was rehabilitated with a budget of PhP 158,750. IPB also acquired laboratory equipment, which together with the BL2 Building refurbishment, cost close to PhP8.40 million.

Another PhP11.375 million was spent on the modernization of the National Crop Protection Center, which included renovations and procurement of molecular and biotechnological equipment used for DNA barcoding, molecular marker generation, genetic diversity studies, chemical ecology, and pesticide analysis.

The Postharvest Horticulture Training and Research Center (PHTRC) benefited from institutional development grants from two of UPLB's longstanding partners. An PhP8.5 million grant from the DA-BAR helped establish the Biophysics, Quality Assurance, and Heat Treatment Laboratories. A PhP1.25 million support from DOST-PCIEERD helped replace the cold room refrigeration system of its Instrument Room. PHTRC acquired close to PhP10 million worth of equipment used in research and instruction in postharvest handling, storage, and physiology of perishable crops.

College of Arts and Sciences (CAS)

Ten computer laboratories at the Institute of Computer Science were refurbished. The Institute also acquired new equipment used in network upgrades for instruction and research worth PhP7.286 million. Similarly, the Institute of Statistics refurbished three microcomputer laboratories and a classroom, and procured 10 new microcomputer units (PhP364,800) for research activities.

The Institute of Chemistry acquired laboratory equipment worth PhP7.919 million for a research project under the Emerging Interdisciplinary Research (EIDR) Program and for the UPLB-PCIEERD NanoTech Laboratory (PhP1.999 million).

The Institute of Biological Sciences procured laboratory equipment worth PhP21.74 million and software worth PhP189,700. Another PhP4.306 million was used to purchase laboratory equipment for the Institute of Mathematical Sciences and Physics.

College of Development Communication (CDC)

We provided CDC a budget of PhP 6.682 million to upgrade its Media Laboratory and lecture rooms, replacing air conditioning units (PhP 1.873 million) and acquiring 24 units of Apple iMac computers (PhP 1.870 million); eight (8) units MacBook Pro (PhP 591,680); and eight (8) units HP desktop computers for use in media production projects.

College of Economics and Management (CEM)

CEM procured laptops and LCD units for lecture rooms and laboratory classes amounting to PhP 390,000.



College of Engineering and Agro-Industrial Technology (CEAT)

Laboratories at the Department of Chemical Engineering got a significant boost with an institutional development grant of PhP 2.86 million for constructing the Biofuels Building from the DA-BAR. It also renovated several laboratories and the second floor of the Biofuels Building with funds (PhP 11.10 million) from various sources.

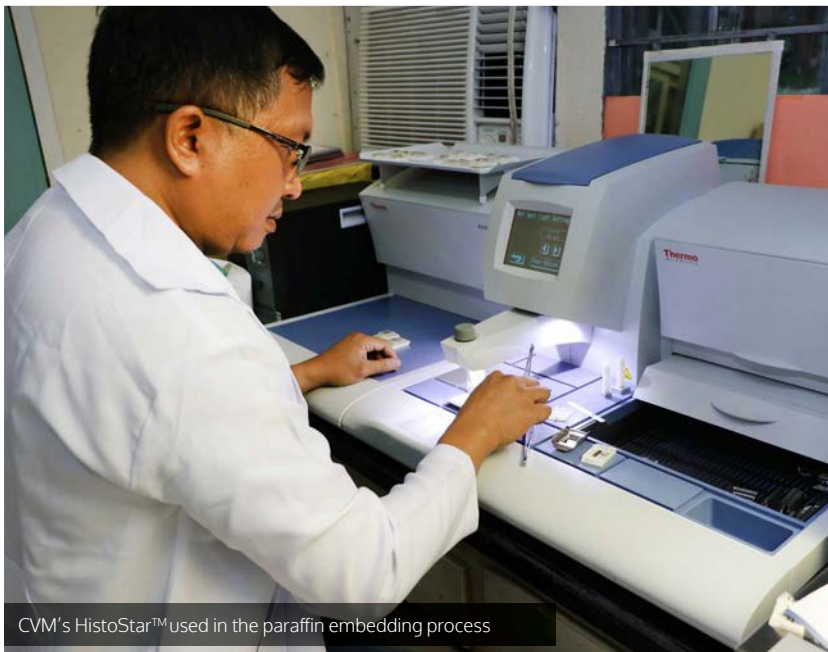
Civil Engineering Department used PhP4.681 million to purchase equipment used in construction materials testing, surveying, and simulation exercises. The Department of Industrial Engineering was allotted PhP 4.039 million to refurbish the IED Laboratory Classroom and to acquire equipment.

Meanwhile, laboratory equipment worth PhP1.639 million was provided for the Agrometeorology and Farm Structures Division, i.e., for aerial imaging and leaf/canopy spectral measurement.

AMTEC is a reference testing center of agricultural and fisheries machinery in the country and is tasked to assist in formulating quality, safety, and performance standards of such machinery. It acquired equipment worth PhP 20.437 million for use in machinery testing and evaluating.

College of Forestry and Natural Resources (CFNR)

Four CFNR laboratories are being refurbished with funds from the DENR. The College's Nursery and Forest Biotech Lab, N-Fixing and Mycorrhiza Lab, Biodiversity Monitoring Lab, and Carbon Research Lab are also being upgraded with PhP 3.50 million allocation. Meanwhile its research and instruction laboratories have been equipped with thermal cycler with 96-deep well reaction module, autoclave, gel documentation system, and ultrapure water purification system using internal funds and donations from PCAARRD and DA-BAR amounting to a total of PhP7.70 million.



CVM's HistoStar™ used in the paraffin embedding process

College of Human Ecology (CHE)

A total of PhP 4.83 million was allocated for the construction of new laboratories including the installation of a canopy hood for three laboratories to improve the exhaust system. New laboratory equipment units were also procured with the allocated budget.

College of Veterinary Medicine (CVM)

Upgrading of the CVM DVCS surgery room is underway along with the procurement of PhP3.133-million worth of new laboratory equipment such as binocular microscopes, ventilator, anesthesia machine, thermal cycler, vaporizer, and a multi-parameter portable veterinary monitor.

School of Environmental Science and Management (SESAM)

SESAM refurbished its Environmental Laboratory with a budget allocation of PhP167,562 and procured various equipment worth PhP7,791,975 such as a polarizing microscope, spectrometer, multi-parameter water quality meter, metalyser, and portable gas monitor.



CHE Geomatics Laboratory for human settlements planning



One of ten laboratory rooms at the ICS that were refurbished and provided with computers and networking equipment

Instruction and research laboratories development

College	Grand Total
College of Agriculture and Food Science	138,107,967.19
College of Arts and Sciences	88,849,392.93
College of Engineering and Agro-industrial Technology	48,784,802.30
College of Human Ecology	4,861,092.00
College of Veterinary Medicine	3,132,995.00
College of Development Communication	6,682,128.00
College of Economics and Management	389,700.00
College of Forestry and Natural Resources	14,088,769.79
School of Environmental Science and Management	7,959,537.00
TOTAL	312,856,384.61

Details of selected colleges' instruction and research laboratories development

College	Grand Total
COLLEGE OF AGRICULTURE AND FOOD SCIENCE	
Institute of Crop Science	26,390,304.67
Institute of Food Science and Technology	1,505,356.52
Institute of Plant Breeding	8,398,115.14
Postharvest Horticulture Training and Research Center	19,520,406.00
National Crop Protection Center	11,375,359.64
COLLEGE OF ARTS AND SCIENCES	
Institute of Mathematical Sciences and Physics	4,821,921.60
Institute of Computer Science	7,286,470.00
Institute of Statistics	364,800.00
Institute of Chemistry	7,919,178.00
Institute of Biological Sciences	21,239,205.69
COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY	
CEAT Library	1,158,638.00
Department of Chemical Engineering	15,021,482.23
Department of Civil Engineering	4,680,885.00
Department of Industrial Engineering	4,053,101.58
Institute of Agricultural Engineering	1,638,950.00
Agricultural Machinery Testing and Evaluation	20,437,285.00



Inductively coupled plasma optical emission spectrometer, a trace multi-element analyzer used in nanotechnology research (Nanotech Lab)



The Media Laboratory of CDC was equipped with 24 units Apple iMac computers, 8 Macbook Pro laptops, and 8 units HP computer desktops



PHTRC Annex building renovation was funded by DA-BAR (PhP 8.5 million) and DOST-PCIEERD (PhP 1.2 million)



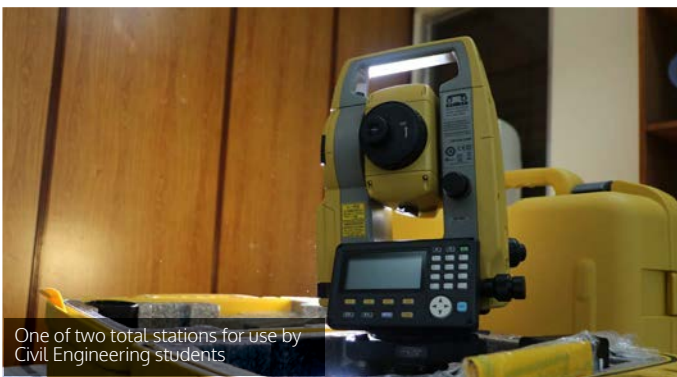
Various testing equipment of AMTEC



Universal Testing Machine at the Department of Civil Engineering



Rehabilitated BL2 Greenhouses (IPB)



One of two total stations for use by Civil Engineering students



Raw fiber extractor (ASRTL)



Gel documentation system (CFNR)



Ultra pure water purification system (CFNR)



Strengthened campus safety and security

Enhanced security manpower

We beefed up our security workforce to provide security personnel 24/7 in key areas and buildings in UPLB. We hired the following personnel: a Deputy Chief (Security Officer III); security guards and officers; and Community Support Brigade (CSB) personnel, who are mostly college graduates in criminology.

To better respond to special concerns involving women and children, we have assigned Women and Children Desk Officers and coordinated actively with the UPLB Gender Center.

Four CCTV operators work in three shifts monitoring 24/7 the CCTV cameras that are located in strategic places in the campus.

As additional security measure, we also adopted a standard protocol of arranging detailed personnel from Los Baños-Philippine National Police (LB-PNP), the Los Baños-Bureau of Fire Protection (LB-BFP), and other local safety and security agencies during major University events. They man the traffic and maintain peace and order outside the campus.

Improved enforcement of campus rules and regulations

We have posted an infographic on campus policies and rules in the OVCCA website and on tarpaulin billboards set up at entry/exit points and strategic parts of the campus. These policies and rules are based on national, local, or university policy pronouncements.

We also inform students on security matters during the orientation of freshmen, dormers, and other student groups such as in the NSTP.

Identification cards are required from construction workers or service companies going inside the campus. This also goes for tricycle or pedicab drivers belonging to village associations with permit to operate in UPLB (e.g., Animal Science station for Bgy. Putho-Tuntungin). Jeepney drivers plying the UPLB route are also issued IDs for monitoring, and they are duly warned or sanctioned by the LTO-deputized members of the UPF in case of violations.

Professionalized UPF and CSB personnel

We have been holding monthly formation and inspection sessions, physical fitness activities, and target shooting exercises at the UPF firing range since 2015.

We had the UPF and CSB trained on traffic enforcement, disaster risk reduction and management, search and rescue operation, stray dog catching, snake identification and handling, first responder and first aid, cave rescue, hand held radio operations, gender sensitivity, and drug addiction and prevention.

Seven members of the UPF were deputized by the Land and Transportation Office (LTO) to apprehend traffic violators. Nine members of the police force and the CSB were trained by the Metro Manila Development Authority (MMDA) to manage, direct, and control traffic.

To ensure that we have a drug-free security force, we started conducting an unannounced drug testing of the CSB and UPF personnel in 2016.

Improved resources for public safety

We installed biometrics devices in the dormitories in 2017 for better monitoring of residents. State-of-the-art CCTV cameras have been stationed in strategic areas in the campus with monitoring done from a centralized control room at the UPF headquarters.

Colleges and units such as the University Health Service and the Obdulia F. Sison Hall have also set up CCTV systems in their premises. We are also in the process of installing CCTV cameras in all UPLB dormitories.

For efficient communication during emergencies, we provided new hand-held radio units to members of the management committee of the Office of the Vice Chancellor for Community Affairs (OVCCA), to the director of the Office of Student Affairs (OSA), and to our security personnel. We also conducted a training session on the proper use of hand-held radios, as well as to comply with a requirement for a license to operate.

To ensure the safety of our students, the UPF provides free transportation to students and constituents from the UPLB gate to the dorms or housing units at 10 pm and every hour thereafter until 4 am to ensure their safety.





UPLB Chancellor Fernando C. Sanchez, Jr. (seated center) signs MOU with Los Baños Mayor Caesar Perez (2nd from R), Barangay Captains Janos Lapiz (Batong Malake) and Ronaldo Onate (Putho-Tuntungin), and the LB- Philippine National Police on April 25, 2015. The MOU had been renewed in 2016 and 2017 to ensure peace and security around the campus.

Community partnerships in maintaining safety and security

UPLB forged an agreement with Los Baños Mayor Caesar Perez to set up a police outpost guarding the IPB road. The outpost is being manned by a Philippine National Police- Los Baños (PNP-LB) personnel, the first time that a full-time LB-PNP had been assigned there.

In 2015, to enhance partnership with the surrounding communities of UPLB, Chancellor Sanchez signed an MOU with the Los Baños LGU, LB-PNP, and the two barangays that are critical to UPLB: Batong Malake and Putho-Tuntungin, for their barangay tanods to help patrol the areas surrounding the campus. The MOAs were renewed in 2016 and in 2017. The Bureau of Fire Protection (BFP) was included in 2017, under the auspices of the LGU of Los Baños. The MOU also provides for yearly gasoline subsidy for the partnerships. The formal agreement, save for the gasoline subsidy, was the first of its kind in the history of UPLB.

UPLB also leased for PhP1/square meter a 35-square meter land area at the Mt. Makiling Forest Reserve to the Provincial Capital of Laguna to operate a radio repeater system. The radio system is used to monitor the province for crime prevention (including drug use and trade monitoring), as well as for disaster preparedness. In their renewal of lease, UPLB asked for access and use of the facilities for information and monitoring, as well as for early response to emergencies.

Gender-sensitive campus

We sponsored activities to enhance and increase awareness of gender-related issues and concerns in UPLB and other communities. The activities included conversations and forums with experts, orientation sessions and seminars, workshops and training courses, medical missions, photo contest, movie screening, visual arts and theater shows, and presentation of research outputs.

Since 2014, around 80 activities on understanding the implementing rules and regulations of the anti-sexual harassment law; GAD planning and budgeting; HIV awareness; capacity building on gendered research; violence against women; promotion of men and women’s health; research using human subjects; teenage pregnancy; gender sensitivity; gender fair language; and gendered research have been conducted through the Gender Center.

Participants of these activities included both UPLB students, faculty and staff members as well as external audiences such as students from nearby schools, local officials, government employees, members of media, civil society and the private sector, staff of the PNP, and women from underserved households.



The Gender Center conducted training on using gender-fair language in the workplace among frontliners of the OVCCA including the security force, medical personnel, and dorm and housing staff on Nov. 14, 2016.



Institutionalized Green Campus Program

Environmental Compliance Certificate for UPLB

After undergoing almost three years of environmental impact assessment of the buildings constructed in campus since 1982, UPLB was granted an Environmental Compliance Certificate (ECC) on April 25, 2016 by the Environmental Management Bureau-Department of Environment and Natural Resources (EMB-DENR).

The project was started in 2013 by the OVCCA in collaboration with SESAM faculty, a team of graduate students, and research assistants, which continued in 2015, when the Programmatic Environmental Performance Report and Management Plan was completed and submitted to DENR.

The ECC assured UPLB's compliance with Presidential Decree No. 1586 and DENR Administrative Order No. 2003-30, which are policies on the establishment of an environmental impact statement system among government and corporate institutions to maintain the balance between socio-economic growth and environmental protection.

Moreover, the ECC serves as a tool to plan and enforce strict environmental policies in the campus and as an environmental protocol to guide future development projects and programs in the University.

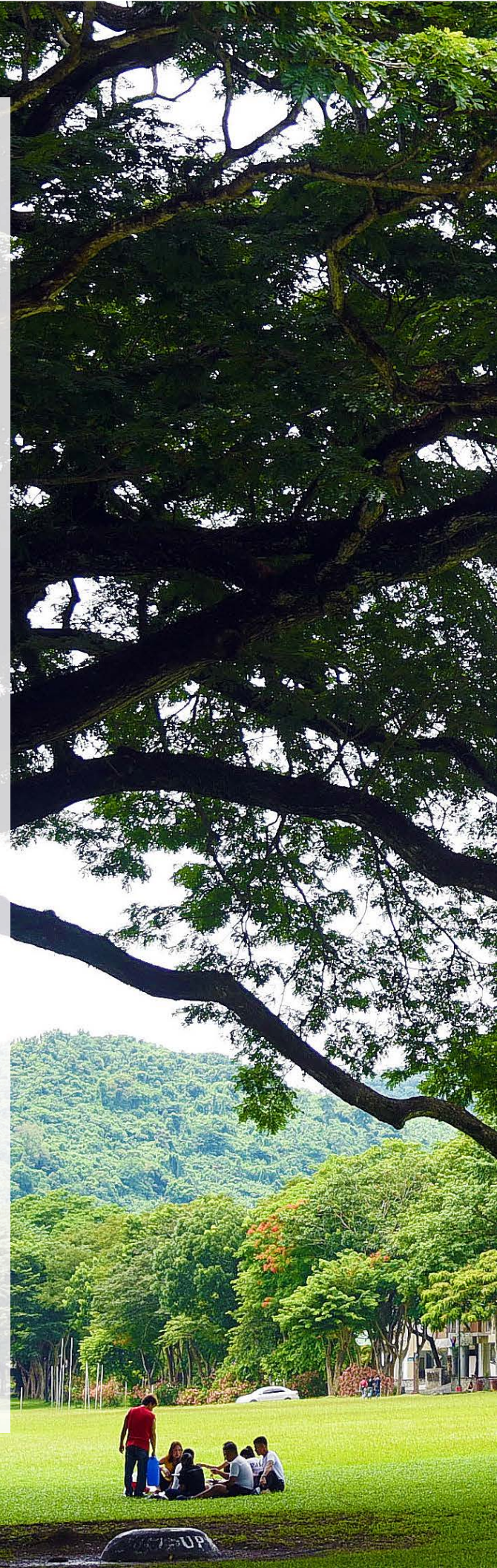
Waste management

We strictly implemented the No Littering policy of the LB-LGU and provided additional waste bins/receptacles for biodegradable, recyclable, and residual waste in some buildings. Security personnel go on rounds in the campus 24/7 to monitor compliance to the policy.

We also strictly enforced the No Plastic and No Straw policy of the LGU among food concessionaires on campus to avoid generating waste from non-biodegradable materials. A class in Development Communication 208 at CDC supported the University's proper waste management drive by conducting a project on proper solid waste segregation in 2016.

Trees preservation in campus physical development

Despite the various physical developments in campus since 2014, we have always emphasized environmental sensitivity and safety. UPLB obtained permits from the DENR for balling trees that were affected by the construction of the Graduate School International Student and Cultural Center Building on May 19, 2017 and by the expansion of Pili Drive on February 8, 2017. These trees were replanted in more strategic zones in the campus.





ENVIRONMENTAL COMPLIANCE CERTIFICATE

(Issued under Presidential Decree 1586)

ECC-R4A-1512-0818

THIS IS TO CERTIFY THAT THE PROPONENT, **UNIVERSITY OF THE PHILIPPINES LOS BAÑOS (UPLB)** is granted this Environmental Compliance Certificate (ECC) for their **UNIVERSITY COMPLEX PHASE 1 PROJECT** located at **Barangay Batong Malake, University of the Philippines Los Baños, College, Los Baños, Laguna** by the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB), CALABARZON Region.

SUBJECT ONLY to the conditions and restrictions set out in this Certificate with the following details:

PROJECT DESCRIPTION

The University Complex Phase 1 Project shall cover a gross floor area of One Hundred Fifty Two Million, One Hundred Ten Thousand (152,110,000) square meters within a total land area of Nine Million Nine Hundred Seventy Thousand (9,970,000) square meters of parcel of land embraced by TD No. 2769 located at Barangay Batong Malake, University of the Philippines Los Baños, College, Los Baños, Laguna.

The project shall have the following components: institutional buildings (administration, auditorium, lecture halls, classrooms), laboratories, experiment stations, residential buildings (dormitories and housing units), support services buildings (health services and food establishments) specifically enumerated below, water distribution system, deepwells, solid waste management facilities, sewage treatment plant, and other related support facilities and amenities at the upper and lower campus of UPLB.

<p>UPLB Upper Campus</p> <ul style="list-style-type: none"> • College and Buildings 	<p>College of Forestry and Natural Resources (CFNR)</p> <ul style="list-style-type: none"> - CFNR Administration Building - Museum of National History (MNH) - Forest Products and Paper Science (FPPS) - Forest Biological Science/Institute of Renewable and Natural Resources (IRNR) - Forestry Residence Hall (FOREHA) - Makiling Residence Hall (MAREHA) - New FOREHA - Department of Social Forestry and Forest Governance - CFNR Library - Training Center for Tropical Resources and Ecosystems Sustainability (TREES) - Makiling Center for Mountain Ecosystems (MCME) - Philippine Center for Tropical Forest Science (PhilTROP) <p>University Health Service Asean Centre for Biodiversity (ACB) Ecosystems Research and Development Bureau of the Department of Environment and Natural Resources (ERDB-DENR)</p>
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ECC-R4A-1512-0818

University Complex Phase 1 Project

University of the Philippines Los Baños (UPLB)

6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd., Ermita, Manila
 Rd's Office 536-2808; 536-3095; Telefax No. 536-9784; Admin/Finance Division Telefax No. 404-1610
 PC Division 525-0348; 404-1610; EIA Division Telefax No. 522-8177

E-mail Address: emb_r4a@denr.gov.ph



Disaster and Risk Reduction Management

We institutionalized regular inspections for disaster preparedness to ensure that UPLB buildings are not public hazards and participated in national earthquake drills.

The Occupational Health and Safety and Standards Committee (OHSSC) increased its fire and earthquake drills in campus including the AG Samonte Hall, and in almost all colleges, namely: CDC, SESAM, CEM, CAS Complex, CEAT, CHE, PHTRC-CA, and CFNR.

The OHSSC provided manpower for the Disaster and Risk Reduction Task Force that was organized on September 29, 2015 through AO 275 issued by the Office of the Chancellor, in conducting earthquake and fire drills.

UPLB, through the OVCCA and SESAM, is also a member of the Los Baños Municipality's Disaster Risk and Management Council, which is chaired by the mayor.

We sent an OHSSC staff to the UP System-wide training course on Basic Occupational Safety and Health (BOSH) on June 28-30 and on July 6-7, 2016 and June 2017 in UP Diliman. One of the outputs of the training course was a safety plan for UPLB. The same course was held again on July 3-7, 2017 at UPLB for all frontliners and stakeholders in occupational health and safety.



The Occupational Health and Safety and Standards Committee (OHSSC), headed by Prof. Garry Jay Montemayor, increased its fire and earthquake drills in campus in 2016 and inspected all the dorms and libraries for building integrity in 2017.

Broadened student and staff welfare policies and activities

Provision of facilities and psychosocial support in dormitories

We provided more than 2,000 new mattresses for our dormers and rehabilitated sports facilities for basketball, volleyball, table tennis, board games and other recreational activities. Further, we provided landline and mobile telephones, free wifi, and computer rooms in the dorms so that dormers do not have to go out at night unnecessarily.

We also placed biometrics units to better monitor students and installed CCTVs in strategic areas in the dormitories - all for ensuring our students' safety. UPLB, in cooperation with private alumni donors, also conducted annual fumigations in 2016 and 2017, specifically in the dormitory areas, to help prevent dengue.

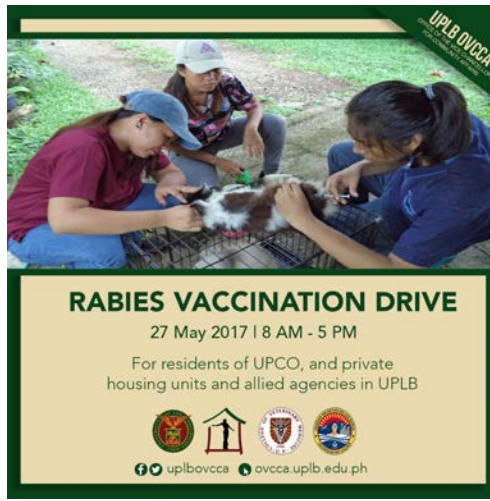
The PasADahan, an annual sports festival and pageant, was held to strengthen the UPLB Alliance of Dormitory Associations (ADA) and to enhance the relationship among dormers.

Current renovation works are underway at the university dormitories by the University Housing Office. The Men's Residence Hall Unit 1, a structure constructed in 1966 and has historical and cultural value since it was designed by National Artist for Architecture Leandro V. Locsin, is scheduled for restoration. It will also be renovated with additional study and recreational areas, commercial spaces, lounging areas, and transient rooms. Also in the pipeline is the construction of a new three-storey dorm behind Unit 1, with a target capacity of 100 residents.

The OHSSC inspected and assured the building integrity and safety of ten dormitories from January to February 2017.

We also trained dormitory managers and house parents in student wellness counseling to equip them in responding to dormers' psychosocial needs.





Improved staff housing policies and facilities

The University Housing Office (UHO) created committees to assess and improve the current staff housing policies, and to assess qualified staff housing beneficiaries.

We implemented "Ayos Saturday," a mobile repair service for staff housing beneficiaries, to make available repair services when the lessees are in their homes.

The University has also started to acquire legacy housing units whose occupants are already ready to divest of them. We negotiated with the occupants and agreed on the terms of their divestment. We have already reacquired a number of units for development of new housing units that can accommodate more UPLB beneficiaries.

As for the Responsible Pet Ownership project, we have registered all pets of housing beneficiaries and sent these to the Los Baños LGU database, regularly vaccinated them for anti-rabies, and ensured that their owners kept them leashed in their backyards. To catch stray dogs in the campus, we have vaccinated some housing workers and members of the UPF as well as had them trained by experts of the Bureau of Animal Industry (DA-BAI Albay) in dog catching and handling.



Improved health service

The University Health Service (UHS) was awarded as the Most Outstanding Government Hospital in Laguna for 2015 under the “Best Performing LGUs and Hospitals in 2015 LGU-Scorecard.” The award was given by the Governor in Sta. Cruz, Laguna on December 6, 2016.

The UHS Infrastructure Project, which is in the pipeline for 2017, provides for site development, relocation, and further renovation of the UHS Emergency Room and the construction of the UHS Main Building Extension on both existing bays at the rear portion of the hospital. The rehabilitation will make way for additional suite rooms and private rooms and increase the UHS bed capacity from 30 to 40. The obligated budget for this infrastructure project is PhP 40 million.

UHS has continued to implement collaborative healthcare projects and programs with local and international agencies, draft policies, and institutionalize health programs such as the UHS Diabetes Mellitus Health Education Program, UPLB Quit Smoking (QuitsS) Support Program, UHS Nutrition Counseling Program, Elderly Program on Dementia and Alzheimer’s Disease, UHS Mass Immunization Program, and the UPLB Health Maintenance Organization (HMO) through the UPLB Community Chest Inc.

We have also formed the Student Crisis Management Committee last February 1, 2016 and established a clinic for an in-house mental health professional to cater to the immediate need of students who are under psycho-social or psycho-emotional distress and are needing urgent intervention. The clinic, manned by Dr. Alexandra Jean C. Palis provides counseling services to UPLB “students-at-risk” of self-inflicted injurious behavior or “index students” who need diagnostic and therapeutic management assistance. She complements the guidance counselors based at the OSA.

A longstanding partner of the UHS is the Sigma Delta Phi sorority, which had for decades, donated bed linens, pillow cases, and gowns to the hospital, as well as adopted the children’s ward. It upped itself by donating medical equipment and supplies in 2015 such as nebulizers and crank beds, and by adopting two more rooms (OB-Gyne and the ICU), which they repainted and equipped with television sets. In 2017, they again donated 48 sets of colored hospital linens plus gowns.



UPLB supports National Mental Health Act

Even prior to the most recent passage of the Senate Bill No.1354 or the Mental Health Act of 2017, UPLB has already seen the need of meeting the mental and socio-emotional health of its students. Hence, the University Health Service –OVCCA hired Dr. Alexandra Jean C. Palis as the University’s in-house psychiatrist last February 2016.

Dr. Palis was a UPLB BS Biology graduate. She finished her Doctor of Medicine degree from the Pamantasan ng Lungsod ng Maynila and trained in psychiatry at the Makati Medical Center.

“Early detection of symptoms is the key to determining the support these students need and the definitive treatment to be done by mental health professionals,” she said.

According to Dr. Palis, the students’ usual problems range from stressors with academic-related tasks, interpersonal problems among family or peers, as well as situational stressors that are unpredictable for the individual. Most cases that she had encountered include mood disorders and anxiety disorders among students.

She also saw the importance of ready protocols that will address how to deal with students in emergency situations and emphasized that a good liaison with their parents or designated guardians will be helpful and efficient. Another thing she focused on was the need to reinforce the availability of guidance and counseling services. This, according to her, would make a more structured arm of assistance through this service that is student-friendly, non-threatening, and secure (MManza).



Sigma Delta Phi Alumnae Association, led by President Caro Esguerra '76, donated hospital linens to the UHS on 18 March 2016. They also donated facilities and equipment such as nebulizers, crank beds, and television set as well as adopted two rooms for maintenance. The donations were received by UHS Director Dr. Marilyn Reaño, Deputy Director Dr. Myla Avena '95, and UPLB Vice Chancellor for Community Affairs, Dr. Serlie Barroga-Jamias '81.



Academic and financial support for students

Mentoring program for students

From 2015 to 2017, we provided tutorials to almost 3,500 students in various areas of study. Across school years, the subjects that were in demand for tutorials were Physics 3, Biology 30, Statistics 1, Statistics 162, Math 11, Math 14, Math 17, Math 31, Math 37, Chemistry 15, Chemistry 40, and Botany 3. Tutorials were either conducted one-on-one or through team learning sessions.

We also conducted English and Filipino tutorials to five graduate and exchange students. Customized training programs were given to 160 students in the following: cultural language training, basic video editing, events management, public speaking, personality development, broadcast, voice and hosting, photo editing and layout, basic video editing, customer service, basic photography, and branding and power dressing. Twenty-seven staff of the University Housing Office trained in customer service and events management.

Intercultural competence of frontliners

In order to equip concerned UPLB managers on cultural sensitivity, we launched Kalinangan: A Cultural Exchange Workshop last September 19, 2016. Volunteer international students oriented selected University officials on the history, language, cuisine and culture of their respective countries.



Socialized Tuition System (STS)

The Socialized Tuition System (STS) was approved by the BOR on December 13, 2013. With the ST System, we provided tuition discounts to UP students based on their paying capacity. Since the implementation of the STS in UPLB, majority of our students have been receiving 60% tuition discount, while a few others were given full tuition discount with stipend.

TUITION DISCOUNT*							
ACADEMIC YEAR	ND	PD33	PD60	PD80	FD	FDS	TOTAL
2014-2015	1316	3316	4416	2036	920	383	12387
2015-2016	555	2651	4514	3025	561	262	11568
2016-2017	323	2084	4217	2193	609	141	9567

*ND- No discount; PD33- Partial discount, 33% (PhP 1,000/unit); PD60- Partial discount, 60% (PhP 600/unit); PD80- Partial discount, 80% (PhP 300/unit); FD- Full discount; FDS- Full discount plus stipend

Loan programs

We allowed students to defer up to 80% of their matriculation fees through the Student Loan Board (SLB) Program where loan borrowers do not have to pay any interest on their loans as long as they pay within the semester. In addition to the SLB, we implemented a new emergency cash loan program that allowed students to borrow cash for emergency purposes such as for payment for dormitory fees and for allowance with minimal interest.

ACADEMIC YEAR	SEMESTER	STUDENT LOAN BOARD	EMERGENCY CASH LOAN PROGRAMS
2014-2015	1st Semester	4190	161
	2nd Semester	3659	167
	Midyear		12
2015-2016	1st Semester	3971	167
	2nd Semester	3362	137
	Midyear		9
2016-2017	1st Semester	2917	181
	2nd Semester	2546	162

Student Assistantship Program

With the Student Assistantship (SA) Program, students now get paid PhP60 per hour for working in various units of the University starting in the 1st semester of AY 2014-2015. Before supervisors can request for SAs, and before SAs can apply for a position, both parties are required to know about the implementing rules and regulations governing the SA program.

ACADEMIC YEAR	SEMESTER	NUMBER OF SAs
2014-2015	1st Semester	950
	2nd Semester	1152
	Midyear	243
2015-2016	1st Semester	675
	2nd Semester	677
	Midyear	239
2016-2017	1st Semester	595
	2nd Semester	604

Private and government scholarships

We launched the Adopt-a-Student Program on October 10, 2015. Through this program, we provide financial assistance to low-income students by pooling monetary contributions from institutional and individual donors to cover portions of a UP student's monthly allowance for lodging or entire matriculations for one semester.



Expanded external networks and support

Enhanced alumni relations

To facilitate communications with the alumni, the Office of Alumni Relations (OAR) designed and deployed the Alumni Information System (AIS) on November 29, 2016.

The AIS database system manages alumni information and has data summary and visualization features needed for alumni tracing functions. It also serves as a directory with search/retrieve features.

The AIS provides information that enables academic units to network and collaborate with alumni in the development of curricular and research programs. This is one of the metrics for program accreditation under the ASEAN University Network-Quality Assurance (AUN-QA) system.

In December 2016, the OAR in partnership with the Office of Public Relations (OPR), issued the first edition of the e-newsletter "UPLB Now," which is basically a newsletter specially for updating alumni on news in the University.

Global alumni network

In view of the thrust of the University towards ASEAN integration and internationalization, various university, regional, and international linkages with UPLB alumni were established including alumni formations in Southeast Asia in 2016

Distinguished alumni were enjoined to be involved in academic, research and public service programs and activities of the various academic units in the University. Alumni were also involved in curriculum review, revitalization of degree offerings, and the development of new graduate programs. Distinguished alumni were invited to become visiting professors, adjunct faculty, and resource persons. Some alumni provided opportunities for student internships and practical training, and served as mentors in the research endeavors of students. Moreover, alumni were involved as volunteers to assist in the promotion of UPLB's social development initiatives and technologies in communities.

Alumni Espasyal Alumni Privilege card

The OAR relaunched the alumni privilege card "Alumni Espasyal" in 2017. Espasyal encouraged its graduates to revisit the campus and provided them with special discounts on various services and products offered by selected commercial establishments.

Alumni donors for student scholarships

There is a continuous effort to solicit the support of the alumni to help the university realize its vision-mission. The alumni generously donated funds for student scholarships through the Office of Student Affairs (OSA).

UPLB-UPLBAA partnership

UPLB initiated the Website Content Managers Workshops for alumni associations of all colleges, to enable them to develop the UPLBAA website.

New UPLBAA projects in the Alumni Plaza include the new Coffee Shop, which became fully operational in 2015. The edible garden, a project of Class 1963, was also completed in 2015.

Alumni Hostel

The management and operation of the Alumni Hostel at the UPLB Alumni Center was turned over to the OAR in 2015. The Alumni Hostel provides accommodations for the alumni during occasional visits in the campus.



Strengthened town-and-gown partnership and service to the larger community

UPLB practices the town-and-gown partnership with the local government and with the surrounding as well as larger communities. For one, the University is an active member of the Los Baños Science Community Foundation, Inc. (LBSCFI) along with 21 other member-agencies in Los Baños. The LBSCFI is the only existing science community in the country that aims to foster the spirit of sharing of resources and expertise among research agencies. The LBSCFI celebrates science and technology week every year by holding the Syensaya, the S&T festival that features the Wonderama, a science exhibit, and a recognition program for outstanding researchers in Los Banos. UPLB's Chancellor Fernando C. Sanchez, Jr. was elected vice president of the LBSCFI in 2016

UPLB also welcomed as guests, through the requests of the UP Student Regent and the UPLB University Student Council (USC), about 10,000 indigenous peoples (Lumads) needing transit enroute Manila. The Office of Vice Chancellor for Community Affairs (OVCCA) coordinated with the Mayor's Office, nearby barangay officials, the Los Banos-Philippine National Police (PNP), and the LB-Traffic Management Office to facilitate entry, parking, security, living quarters, as well as the provision of food and free medical assistance to the sector representatives. The Lumads and other indigenous groups and sectoral representatives visited UPLB on these dates: October 24, 2015 (168 buses); July 22-23, 2016; October 12-24, 2016 (50 bus loads); and August 29, 2017 (2,000 representatives).



(1) Officials of the Los Baños Science Community, Inc. led by UPLBFI Director Casiano Abrigo, Jr. attend the Syensaya 2015 on August 12, 2015. UPLB is one of the 21 member agencies of the LBSCFI, Inc.

(2) Vice Chancellor for Community Affairs Serlie Barroga-Jamias received a plaque of appreciation for UPLB as a partner of Los Baños' development plans from Los Baños Mayor Caesar Perez. Witnesses were Vice Mayor Copie Alipon, Congressman Joaquin Chipeco, Jr. (3rd from L), Mark Lapid, and Vice Governor Karen Agapay (4th from L).

(3) UPLB helped coordinate the visit of about 10,000 indigenous peoples and sectoral representatives sponsored by student officials in transit to Manila. Staff Regent Alexis Mejia with Vice Chancellor Serlie Barroga-Jamias send off the representatives to Manila.



Looking ahead:

Perhaps the accomplishments of UPLB can be simply summarized as follows: we strengthened our academic programs in the context of internationalization and national development. We focused our sights on attaining global competitiveness of our degree programs and graduates; put in place structures and mechanisms to help increase the country's knowledge capital; and invested in increased and enhanced innovation and creativity.

But neither will this summary nor all the details and figures truly capture our real collective accomplishments.

We started with a clear vision of what and where we wanted to be, and that is, to be a globally competitive research, graduate and public service university. We pursued these with strong resolve and prudent resource management. We established a challenging but facilitative, supportive, and enabling environment to allow our constituents to contribute to our goals.

But in the end, it was our common desire as professionals and as a community to matter in the lives of the Filipino that motivated us to work towards solutions to the pressing challenges of our time: in food safety and security, sustainable development, climate change, population growth, renewable energy, disaster risk management and security, gender and cultural sensitivity and a host of global health and environmental concerns.

Our accomplishments are tributes to UPLB constituents- faculty, REPS, administrative staff and students, who gave not only of their time and talents, but of their passion and commitment towards a collective aspiration. Our accomplishments are our collective stories. They are inspiring narratives of how we as a University can synergize diversity into productive unity and how capable we are as individuals to set aside personal differences and place the interest of UPLB and the nation above our own. They are remarkable tales of how we can effectively share our aspirations and resources even with varied and various partners and stakeholders in the local, regional, and global community.

Our accomplishments are humbling stories of unity.

But this report lays down what we in UPLB have collectively accomplished only as much as it identifies the challenges ahead. No matter how seemingly magnanimous or modest, our accomplishments are just foundations for the future. They are provisional success that remain contingent on how we can maximize and sustain them.

Encouraged by unity and inspired by the vigor and zeal we demonstrated, I am confident that we can build on the gains of the past three years and even forge a better future. Three years ago, I took helm as UPLB Chancellor and conveyed a sentiment still worth sharing:

"To say that we are laying the groundwork required to become a globally competitive graduate and research university would not only be inaccurate. It would also sound ungracious of the legacy the prime movers of the past 106 years have left us. But it is this very legacy of honor and excellence that we must uphold if we are to fulfill our mandate as a graduate, research, and public service university."

Before we become a globally illustrious university, we must first be a honorable, excellent, and relevant one. Or more to the point, before we can become an international university, we must first be a national one, which entails rekindling the spirit of nationalism among our constituents.

Of course, among the requisites of becoming a globally competitive educational institution is that we must nurture a new breed of intellectual and civic minded students capable of surviving and shining in the international arena. It also prompts us to imbue them with entrepreneurial spirits so that they may become dynamic forces in promoting inclusive growth. But we must never forget to teach them humanity and love of country.

There is no better reminder of our revered character than the UP oblation, a towering reminder of our reason for being. Let us move on in pursuit of soaring goals, but let us do so grounded in our most fundamental purpose to serve the Filipinos. Let us move forward as *Iskolar ng Bayan para sa Bayan!*

I serve therefore I am... from UP.



Rekindling the passion to serve

*Investiture speech delivered March 6, 2015
Fernando C. Sanchez, Jr., Ph.D.*

Some time ago, I saw a student wearing a statement shirt that read, "I think therefore I am...from UP."

I guess we can all relate to this unsuspecting student, who clearly loves to wear his pride - quite literally - on his sleeve. But to tell the truth, we don't really need a statement shirt for others to see that we wear our pride, and that we wear it well.

But the more serious question is, Why are you proud to be from UP?

Perhaps we should turn to Republic Act 9500 or the UP Charter to glean any "truth" to these claims. Section 2 or the Declaration of Policy reads "the University of the Philippines is hereby declared as the national university."

Note the article used here: UP is not just a national university but the national university.

This constitutionally determined pride carries over to our mandate to serve as: one, a graduate university; two, a research university; and three, a public service university. The so-called "path to greatness" outlined in the UP Strategic Plan 2011 to 2017 calls for all of us to synergistically work together toward delivering this mandate.

In decades past, UP used to lead the pack in Asia. Specifically, UP Los Baños was the center of academic excellence and the

source of advanced technologies for crop production in the 70s and 80s. But now, the very countries that we used to train have gained ground on us. With ASEAN 2015 upon us, we need to be even more competitive to stay in the game.

In addition, data from a recent professorial chair and Webometrics Ranking of World Universities show that we are lagging behind and must catch up. We must consider these facts and data very seriously.

I do not mean to share these facts to discourage, but rather to establish where we are right now. This way, we would know just how far we have to go to make it to our desired state. As Former UP President Emerlinda Roman expressed in her 2005 investiture speech, the University must not content itself with what is doable but instead, set a clear example of what is superior for the rest of the country.

Incumbent UP President Alfredo Pascual echoed the same sentiment in his 2011 investiture address, and articulated it in his vision for UP to be not only a good, but a great university.

As the newly invested Chancellor of UP Los Baños, I am proud to assert that we wholeheartedly share this outlook, and that we will steadfastly uphold the University's vision to bring UP to a state of greatness.

Allow me to share with you the current administration's vision for UP Los Baños, and that is: To be a globally competitive graduate and research university contributing to national development.

I will be the first to admit that we have a gargantuan task ahead of us... but I go by the code of champions: You either go big or go home. And we at UP know that there is only one way to go. There is no question that we all desire to propel the University of the Philippines Los Baños to its rightful place of greatness in the academic firmament.

In everything that we do, we should never lose sight of this vision. Steven Covey refers to this as beginning with the end in mind. Upon much reflection though, I've come to realize that beginning with the end in mind may limit our focus to being too output- and outcome-oriented. As a result, we may tend to neglect what we experience and learn along the way. As you all know too well, the journey is just as important as the destination.

Our 106th Foundation Day is a time to not only rekindle the past, but it is also an occasion to look to the future. Thus, I see today's program as a fitting venue to share with you not only where we want to go, but also how we are going to get there.

In our bid to be a globally competitive graduate and research university contributing to national development, we will strive to meet three core objectives:

1. First, to sustain leadership in academic excellence.
2. Second, to utilize UP Los Baños's knowledge and technologies toward inclusive growth.
3. And third, to create an enabling environment for creativity and innovation.

Without question, our primary stakeholders are UP Los Baños students—scholars of and for the nation—whom we will develop to be excellence-driven, socially committed, and solution-oriented graduates.

We will be even more tenacious in recruiting the best and the brightest students, tapping the best among high school graduates, and increasing enrollment of students from places outside the National Capital Region.

We will also provide more scholarships to indigent but deserving students, and enhance implementation of the honors program to improve overall student performance, reduce residency period, and increase our number of honor graduates.

We will sustain and strengthen the student support programs initiated during the last three years. Some of these include the UPLB Annual Student Leaders' Summit, financial support for UPLB's performing artists and varsity athletes, and improved protocols for disaster relief and rehabilitation operations. We see these programs as avenues to rouse the spirit of selfless public service among students.

Sustaining leadership in academic excellence also behooves us to maintain and attract eminent faculty and REPS. To this end, the present administration is dedicated to fostering an enabling



environment by enhancing support programs, such as the Academic Development Fund, basic research grants, support for advanced studies and career advancement, and incentives for outstanding faculty, REPS, and support staff.

At the same time, there is a need to develop and enhance our academic programs to make them more relevant and responsive to the rhythms of change. As such, we will be more proactive in reconfiguring our instructional materials for compliance to outcome-based education, alignment with the K to 12 basic education program, and greater competitiveness in the face of regional economic integration.

Speaking of ASEAN 2015, we will continue to streamline our graduate program offerings and assess our programs through the ASEAN University Network or AUN. We are off to a good start, as our BS Biology program has recently received its certificate of assessment by the AUN. This means that the program conforms to international academic standards, and is at par with similar programs from other leading ASEAN universities within the network. We have our fingers crossed, but we are optimistic that our BS Agricultural and Biosystems Engineering, and BS Development Communication programs would likewise get the nod from AUN.

The University has forged meaningful partnerships with our alumni in recent years, and we have every intention to do the same by scaling up our alumni relations programs. We recognize the crucial role our alumni play in bringing us closer to our vision. As part of our internationalization efforts, we are exploring new joint curricular and research programs with our key international partner universities, particularly in the Southeast and East Asia regions, where our alumni and friends occupy positions of importance.

Meanwhile, one of the hallmarks of a graduate and research university is a strong presence of graduate and international students. On this front, we certainly have a long way to go considering that, as of 2014, our total student population comprised only 11% of graduate students. We will strive to make a marked increase in this figure by 2020. On the other hand, our 190 international students constituted only a little more than 1% of our total student population. Yes, our numbers are improving by the year, but if we want this number to multiply significantly by 2020, we will have to be more aggressive in our recruitment process.

One of our major strategies is establishing a Graduate School International Student and Cultural Center, which we hope attracts more graduate and international students to the University, as regional integration unfolds.

The second objective of our strategy map takes our mandate of being a public university to heart.

As a public service university, we bank on our academic excellence not to uplift our own personal conditions, but to improve the quality of life of the marginalized and the vulnerable. We have realigned our current research, development, and extension agenda such that it more aggressively heeds the call for inclusive growth in the Philippines. As a graduate and research university contributing to national development, all our efforts must be directed toward inclusive growth and poverty reduction, which constitute the highest order objective of the Philippine Development Plan 2011 to 2016.

Specifically, we aim to create and deploy knowledge and technologies that are appropriate and scalable. One of our plans in the pipeline is to establish new off-campus learning, research, and extension centers for quicker dissemination and adoption of new technologies and protocols. In fact, exactly a year ago, the University launched 18 Interdisciplinary Studies Centers envisioned to boost scientific and technical know-how in four different clusters: agriculture; technology; environment; and development. This is definitely a step forward in stimulating a pervasive interdisciplinary research culture in UP Los Baños.

Academic excellence demands a nurturing environment for creativity and innovation, which is why the current administration is set to foster an organizational culture of teamwork. When we adopt a laser-like focus on results, we tend to uphold an organizational climate that champions excellence above everything else. Of course, academic excellence is an ideal that we must embody, but in my mind, the greatness that we aspire to be is also contingent on the relationships we forge with one another.

Thus, this administration will exercise a more action-oriented style of management that advocates participatory decision-making and collegiality. We desire an organizational climate that supports open communications with all sectors; an environment that encourages positive collaboration with students and staff.

This way, not only will UP Los Baños live up to its role as a relevant institution dedicated to academic excellence, sustainable research and development, and public service.

It will do so, all while promoting personal and professional growth among all constituents, who know they are truly part of a team. Organizational communication theorists submit that it is precisely this type of environment that enables innovation.

The term innovation might imply a constant need to change; after all, it does come from the root *novare*, which means to

make new. However, true innovation does not mean that we have to reinvent the wheel. Why fix what is not broken? I do not see the merit of innovating for innovation's sake—for to be forward-looking also means taking stock of the past.

Japan's Ministry of Economy, Trade, and Industry or METI makes a good case for promoting continuity in innovation. Economists believe that the Ministry directed much of Japan's exceptional growth and development in the post-war era. What could be attributed to such success is that the Ministry persistently pursued the goals it had initially set out to accomplish—regardless of which Prime Minister was in power.

This is a worthy model to emulate. You might have noticed that our current vision does not stray too far from that of the former administrations. It was just two weeks ago when we held our first planning workshop to draft the UP Los Baños strategy map for 2014 to 2017.

I would like to set forth that, first, the way forward for UP Los Baños is borne out of a shared vision. Far be it from me to take full ownership of, or credit for the current administration's roadmap to be a great University. Second, I find that our collective plan of action augurs well with that of the previous administrations. To put it differently, we are not starting from scratch as we are building on the gains of the past.

To say that we are laying the groundwork required to become a globally competitive graduate and research university would not only be inaccurate. It would also sound ungracious of the legacy the prime movers of the past 106 years have left us. But it is this very legacy of honor and excellence that we must uphold if we are to fulfill our mandate as a graduate, research, and public service university.

It is also this very legacy that should make us exceedingly proud that we are from UP Los Baños. Our challenge now is how we can nurture and sustain this legacy of honor and excellence in the face of a rapidly changing and competitive global environment.

Let us not forget that when we tread the path to a great University, we are doing it to serve the Filipino nation and humanity. We endeavor to produce globally competitive students – those who can survive and thrive in the international arena. But we also expect them to remain nationalistic and make valuable contributions to national development. We will mold them to have humanist souls and entrepreneurial spirits so that they may become dynamic forces in promoting inclusive growth.

And this is perhaps our greatest source of pride: the capacity and commitment to serve. The UP oblation continues to remind us what our reason for existence in the University is. While it may be true that I think therefore I am...from UP, there is no better pride quite like committing ourselves to working together for excellence in the name of nation building.

I serve therefore I am...from UP .



Fernando C. Sanchez, Jr., Ph. D.
Chancellor
06 March 2015

UPLB Management Committee



Chancellor

Dr. Fernando C. Sanchez, Jr.

Vice Chancellor for Academic Affairs

Dr. Portia G. Lapitan

Vice Chancellor for Research and Extension

Dr. Rex B. Demafelis

Vice Chancellor for Administration

Dr. Crisanto A. Dorado

Vice Chancellor for Community Affairs

Dr. Serlie Barroga-Jamias

Vice Chancellor for Planning and Development

Dr. Marish S. Madlangbayan

Assistant to the Chancellor

Atty. Damcelle T. Cortes (Nov. 2014-Oct. 2015)

Dr. Jezie A. Acorda (Nov. 2015-present)

Assistant to the Vice Chancellor for Academic Affairs

Prof. Julieta A. Delos Reyes

Assistant to the Vice Chancellor for Research and Extension

Dr. Susan May F. Calumpang

Assistant to the Vice Chancellor for Administration

Dr. Florentino C. Monsalud (until June 14, 2016)

Prof. Genaro A. Cuaresma (June 15, 2016 – present)

Assistant to the Vice Chancellor for Community Affairs

Prof. Genaro A. Cuaresma (until June 14, 2016)

Dr. Roberto G. Visco (June 15, 2016 – present)

Assistant to the Vice Chancellor for Planning and Development

Engr. Gregorio S. Pascual

Director, Office of International Linkages

Dr. Simplicio M. Medina

Director, Office of Alumni Relations

Dr. Sue Liza C. Saguiguit

Director, Office of Public Relations

Ms. Josephine M. Bo

Director, Office of Student Affairs

Dr. Leticia E. Afuang (until May 31, 2015)

Dr. Nina M. Cadiz (June 1, 2015 – present)

University Registrar

Dr. Myrna G. Carandang

UPLB Executive Committee



College of Agriculture and Food Science
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Dr. Enrico P. Supangco (May 28, 2015-present)

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College of Economics and Management
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College of Engineering and Agro-Industrial Technology
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College of Forestry and Natural Resources
Dr. Juan M. Pulhin (until March 2, 2015)
Dr. Willie P. Abasolo (March 3, 2015-present)

College of Human Ecology

Dr. Marites G. Yee (until May 27, 2015)
Dr. Raden G. Piadozo (May 28, 2015 – present)

College of Public Affairs and Development
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Dr. Virginia R. Cardenas (January 21, 2016-present)

College of Veterinary Medicine
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Dr. Eduardo B. Torres (April 28, 2016-present)

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College of Forestry and Natural Resources
Dr. Ramon A. Razal (September 27, 2016 - present)

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