UPLB, UPLBAA mark 100th Loyalty Day

UPLB and the UPLB Alumni Association are marking 100 years since staff and students of the then UP College of Agriculture, which gave rise to UPLB, volunteered to the Philippine National Guard to fight in World War 1.

The historic day in 1918 evolved into a time for UPLB to celebrate the spirit of volunteerism of its faculty and staff, a spirit that lives on today in public service initiatives of the University. Loyalty Day has also become a day for alumni to congregate in UPLB to celebrate and rekindle their bonds.

Those who graduated in the years ending in 3 and 8 are this year’s honorees, with members of Class 1968 as the Golden Jubilarians.

Exciting events await the UPLB and alumni during the Centennial Loyalty Day celebration starting on Oct. 6 and culminating in the Loyalty Day Foot and Float Parade on Oct. 10, Wednesday, at the Freedom Park. A luncheon-salu-salo and a cultural night will follow at Baker Hall.

On Oct. 6, the Loyalty Day Fun Run “Takbo Para sa Katapatan” or TAPAK will be held to promote physical fitness and appreciation of the ROTC program. The organizers are the UP Vanguard, Inc.-Los Banos Chapter and Run Mania Philippines Promotions. The Prelude to Loyalty Day will also be held on Oct. 6 at the Barradas Airstrip in Tanauan, Batangas.

On Oct. 8, a campus tour will be held for alumni who wish to revisit selected places in the University. On the same day at 4 PM, the Office for Initiatives in Culture and the Arts will open the exhibit called, “Art in Biodiversity” at Sining Makiling Gallery, DL Umali Hall.

On Oct. 9, two major activities will take place at Baker Hall, the UPLB Grand Alumni Homecoming and UPLBAA Business Meeting at 8:30 AM, and the Alumni Awarding Ceremonies and Alumni Fellowship Night at 3:00 PM onwards.

Meanwhile, on Oct. 8-11, the Business Affairs Office will hold the Loyalty Day Trade Fair at the Alumni Plaza near the Canillon Tower. It will showcase local products of small- to medium-scale entrepreneurs, a job fair, financial literacy seminar, and a cultural show.

Held on Aug. 30 was the UPLB Centennial Loyalty Day Music Competition at the REDREC Auditorium where the song “Pamantasang Hirang” won over five other competitors. The Office of Public Relations also organized a video contest, the winner of which will be announced on Oct. 8.

The Office of Alumni Relations, UPLBAA, and the Golden Jubilarians spearhead the Loyalty Day activities. (Paully May Z. Valencia)

Why we celebrate Loyalty Day

Loyalty Day marks its centenary on October 10 this year. But what are its beginnings? How did UPLB come to celebrate this day like it were a festa with the alumni marking it for their homecoming?

It all started on Oct. 10, 1918 when staff and students of the UP College of Agriculture (UPCA) volunteered to serve in the Philippine National Guard (PNG). In 1917, when the United States of America joined the Allied Powers to wage war against Germany, Austria-Hungary, the Ottoman Empire, and Bulgaria, the Philippines as an American colony volunteered to send a Filipino division of 20,000 men known as the Philippine National Guard.

According to alumnus Amando Libunao in “The Loyalty Day Story (1918-1978),” UPCA had a “wholesale enlistment” for the PNG at the former Agricultural Botany Building Auditorium, where the Biological Science Building now stands. This was in response to Laguna Governor Juan Callista’s actual call for PNG volunteers in the campus.

“One hundred and eighty-six out of three hundred students have offered themselves to the National Guard,” reported Dean Charles Fuller Baker in a telegram to the press the same day, as printed in The Philippine Agriculturist, the official journal of UPCA, which recorded the milestones of the Loyalty Day.

“From the College of Agriculture faculty of 30 male members, the Dean and 25 others have volunteered their services to the National Guard. Fifteen of that number have actually enlisted. The only two women of the faculty have volunteered for any service they can render,” added Charles F. Banks, professor of entomology and a volunteer himself.

Why we celebrate... page 9

UPLB links with UK universities

Chancellor Fernando C. Sanchez, Jr. led a delegation of faculty members in a visit to three universities in the United Kingdom to hold partnership and rapid benchmarking meetings on joint graduate programs and collaborative research.

The group, which also included Graduate School Dean Jose V. Camacho, Jr., first visited the University of Reading where they signed the Memorandum of Agreement to implement the Dual PhD by Research Program and discussed plans to expand the UPLB-University of Reading partnership.

It will be recalled that the UP Board of Regents unanimously approved the Dual PhD by Research at its meeting on May 31, 2008. The program, proposed by the Graduate School, is the first of its kind in the country.

The approval of the program set the requirements that need to be satisfied in the offering of a Dual PhD by Research program with a reputable HEI in the Philippines and abroad. Other than the Uni of Reading, UPLB will implement the program with Curtin University of Australia and with the UP Mindanao School of Business, and with other reputable universities in the country and abroad. The Uni of Reading visit was also

UPLB links... page 9

JOINT GRADUATE PROGRAM PARTNERS. Chancellor Fernando C. Sanchez, Jr. and University of Reading Pro-Vice Chancellor for Global Engagement Vincento Raimo display a copy each of the MOU for the Dual PhD by Research program of UPLB and the University of Reading.
EU SHARE says UPLB is well aligned to AQAF

Dr. Rogel Mari D. Sese, program leader of the National Space Resources, spoke about the Philippines’ space program and how it incorporates policies to technologies in developing a space program.

The assessment panel was chaired by Chavalit Wongeek, ASEAN University Network QA expert and advisor to the rector of Mahidol University in Thailand. The members were Jacques Lanares, vice rector emeritus of the University of Lausanne in Switzerland; Agus Setiabudi of the Universitas Pendidikan Indonesia and executive board of the National Accreditation Agency for Higher Education of Indonesia; and Oliver Vettori, dean for Accreditations and Management, WU Vienna, Austria.

UPLB is the only public university and the first in the country, along with the Angeles University Foundation, to submit to the EU SHARE quality assessment. EU SHARE is a four-year initiative by the EU and ASEAN. It aims to support ASEAN in harmonizing regional higher education by sharing their expertise in strengthening regional cooperation, and enhancing quality competitiveness and internationalization of higher education for institutions and students, thereby contributing to a closer ASEAN Community. (Josephine M. Bo)

Photo News

WATER SECURITY INITIATIVES. The UPLB Interdisciplinary Studies Center for Water, chaired by Dr. Patricia Ann J. Sanchez of the School of Environmental Science and Management, undertakes initiatives for water security research, development, and extension. The newly created virtual center has held inter-constituent university and multi-stakeholder discussions from June to September, including the forum to manage the Sierra Madre watershed on Aug. 28 held at the College of Forestry and Natural Resources. (Photo by VRManingas/OPR)

CAFE SCIENTIFIQUE. Dr. Rogel Mari D. Sese, program leader of the National Space Promotion Awareness and Capabilities Enhancement Development Program, said that the Philippines is an “emerging space nation” because it incorporates policies to technologies in developing a space program. Dr. Sese was the featured scientist in the Cafe Scientifique that the College of Development Communication staged at a local coffee shop on Sept. 3. (Photo by JGSancler/OPR)

A NEW FACE OF PUBLIC SERVICE. Chancellor Fernando C. Sanchez, Jr. (2nd from L) led the launch of the Families of Children with Exceptionalities Resource Center (FaCEs) of the College of Human Ecology’s Department of Human and Family Development Studies (CHE-DHFDS) on Sept. 14. FaCEs aims to help families of children with exceptionalities through assessment, guidance, support, and trainings. Joining Chancellor Sanchez were (from L-R) CHE Dean Raden G. Padaco, DHFDS Chair Rufo G. Albor, and Fr. Angelito Broas of the Diocesan Shrine of St. Therese of the Child Jesus. (Photo by VRManingas/OPR)

MORE RESOURCES FOR THE REPS. UP Regent Francis C. Laurel recognized the need to have more resources available to the Research, Extension and Professional Staff (REPS) during the UPLB leg of the System-wide REPS consultation on Sept. 11 at the Electrical Engineering Auditorium. Initial accomplishments and proposals that seek to elevate REPS’ welfare and opportunities were discussed during the event. (Photo by CVLafe/OPR)
Just by the number, sheer size, and usefulness of timber from trees, it is easy to overlook what else a forest can offer.

For Dr. Ramon Razal, a professor at the College of Forestry and Natural Resources (CFNR), the forest is home to abundant natural products other than timber, which are collectively called non-timber forest products (NTFPs).

"They include fruits and nuts, vegetables, fish and game, medicinal plants, resins, essences, and a range of barks and fibers such as bamboo, rattans, and a host of other palms and grasses," enumerated Dr. Razal, who is also one of the members of the board of trustees of the NTFP Exchange Programme Asia and former dean of CFNR.

In the Philippines, various types of NTFPs can be found in different provinces. "For instance, Ilono, Pangasinan, Abra, and Bukidnon are rich in bamboo. Agusan provinces, Palawan, and Mindoro provinces produce a lot of rattan while Palawan, Davao del Norte, Isabela, Samar, and Quezon are abundant in almaciga resin," Dr. Razal continued.

**DIVERSE BENEFITS**

Unlike agricultural crops, most naturally growing NTFPs like bamboo and rattan do not need thorough cultivation. They can also be gathered using simple, common tools.

NTFPs can be sources of fiber and structural materials, medicine and cosmetics, chemical or extractive products, fruits, nuts, leaves, and animal products. Their abundance makes them reliable sources of livelihood for forest communities.

"They also save the forest from being exploited for the trees. Plus, protecting the forests for NTFPs also helps ensure forest diversity," Dr. Razal explained.

"For the environment, we can use NTFPs such as plant leaves rather than plastic bags for packaging. For our health and wellness, we can consume medicinal plants and fruits from the forests rather than fast foods," he added.

According to him, the use of NTFPs is also closely intertwined with the culture of indigenous people. "Many of the elements of musical instruments, houses, and accessories they use are made of NTFPs. Paying attention to NTFPs helps in protecting indigenous culture that otherwise would be lost if these resources are ignored."

Research from the International Network for Bamboo and Rattan also found that bamboo has the ability to store carbon better than plantation trees, which helps in mitigating climate change.

**AGENTS OF CHANGE**

"Foresters should not only be concerned with technical knowledge. They must also have the ability to help communities utilize the natural resources around them to start a business, among others," Dr. Razal said.

This mindset is something he aspires to share with forestry students in his project, "Foresters as agents of change: developing capacity of forestry graduates in assisting upland communities to commercialize non-timber forest products."

The project was submitted to the call of the Commission on Higher Education for K-12 Institutional Development and Innovation Grant for higher education institutes to produce graduates who are better equipped in innovativeness and entrepreneurship.

Through the project, before being deployed for their mid-year practicum, BS Forestry (BSF) students were given opportunities to learn and practice business strategies in a boot camp. This prepared them for the challenges in helping upland communities in Laguna, Quezon, and Cavité realize their business potentials.

"By doing this, we are also helping our future foresters to explore other career paths like starting or running their own business," Dr. Razal pointed out.

The project also established the FOREStore, a one-stop shop that sells goods and materials made from NTFPs developed by BSF students and their partner communities in Laguna, Cavité, and Quezon.

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**THE OUTLOOK**

Dr. Razal hopes that the Philippines will be able to develop a pool of experts who will conduct, share, and support NTFP development.

"People who depend on NTFPs are often far from knowledge centers. Information, technologies and techniques also often fail to reach farmer-gatherers, households, and rural-based entrepreneurs," he revealed.

"Also, less than 10% of the total research activities in forestry research institutes are on NTFPs," he added.

A step taken by SLUs offering BSF was to add NTFPs as a required subject. With this, Dr. Razal expects more research, training, extension activities, and publications on NTFPs, a crucial effort that would help raise awareness for these valuable yet largely ignored forest resources.

Even with the challenges, Dr. Razal has always stayed optimistic. "In the future, interest in NTFPs will further grow," he stated.

As his team strives to conduct more projects about NTFPs, he stays committed to bringing more forest-dependent communities believe that the forest’s bounty goes beyond the timber from trees. (John Glenn S. Saro)
Mussaenda ‘Teresita Lantin-Rosario’ is finally abloom!

Dr. Teresita L. Rosario officially got a mussaenda variety named after her during the 43rd anniversary of PBF. (Photo by Isidro R. Morales)

HER NAMESAKE FLOWER. Dr. Teresita L. Rosario officially got a mussaenda variety named after her during the 43rd anniversary of PBF. (Photo by Isidro R. Morales)

Mussaenda ‘Teresita Lantin-Rosario’ or ‘TLR’ (NSIC No. 4) named in her honor. For her distinction, the late Dr. Simeona V. Siar, was the primary breeder of this variety. The late Dr. Simeona V. Siar, was the primary breeder of this variety.

Only mussaenda, but also of anthurium, medinilla, algaeonema, and the orchid genus spathoglottis that were named after distinguished Filipinas.

M. ‘TLR,’ the first mussaenda variety under the UPLB Outstading Women Breeder Series, was given to Ma’am TL on June 8 during the 43rd anniversary of the Institute of Plant Breeding (IPB). A former colleague, the Late Dr. Simeona V. Siar, was the primary breeder of this newly launched mussaenda variety.

Mussaenda is a hardy flowering shrub belonging to the Family Rubiaceae. Pioneering UPLB forestry professor Calixto Mabesa discovered Mussaenda philippica, called locally as Kahoy-dalaga, in 1915 in Tuntunig Hill, Los Baños. Mussaenda ‘Doña Aurora’ is said to be derived from the latter. It became the autonomous UPLB. Quite rewarding for a scientist who has devoted more than 30 years, Ma’am TL has received the honor that she deserves.

Dr. Teresita L. Rosario, known in the crop science and plant breeding community, has received the honor that she deserves. As a woman whose scientific “art works” have enriched floral biodiversity and have delighted some of the most esteemed women in the country?

Who are the women who deserve such a recognition? How do you give it back to a woman whose scientific “art” has enriched floral biodiversity and has delighted some of the most esteemed women in the country? How do you give it back to a woman whose scientific “art works” have enriched floral biodiversity and have delighted some of the most esteemed women in the country?

According to decades of sowing ingenuity, patience, and persistence in coming up with new crop varieties and hybrids, the time has come for Ma’am TL to reap her harvest – a flower that has just bloomed, bearing not only her name, but also her legacy as a woman of science and a creator of art. (Dr. Lourdes D. Taylor and Marilyn M. Beltran)

What could be the most appropriate reward for a scientist who has devoted her career to the art of ornamental plant breeding? How do you give it back to a woman whose scientific “art works” have enriched floral biodiversity and have delighted some of the most esteemed women in the country?

If it is a flower naming a beloved woman after her, then Dr. Teresita Lantin-Rosario, professor emeritus at the College of Agriculture and Food Science, has just received the honor that she deserves.

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The UP Alumni Association, Inc. has recognized Dr. Maala, professor emeritus at UPLB, for his teaching and research excellence in veterinary medicine. USec. Tiangco, administrator of the National Mapping Resource and Information Authority, was cited for his contribution to the country’s claim for an extended continental shelf in the Benham Rise.

BGen. Tingzon-Manzano (Reserved) was noted for being the first female marine brigade commander and the first woman with the star rank of brigadier general in the male-dominated Armed Forces of the Philippines. The UPAA Multi-generation and UP Alumni Family Awards were given to the Nowero, Bautista, and Fandialan-Dalmacio families.

UP President Danilo L. Concepcion, UPAA President and UP Alumni Regent Raman M. Maronilla, and UPAA First Vice President Oscar P. Palabyab presented the awards. President Concepcion and Regent Maronilla reported the accomplishments of UP and UPAA, respectively.

With the theme Mga Haligi ng Lahi (Pillars of the Nation), the annual event featured musical and cultural performances, including those presented by the jubilarians. (Pauly May Z. Valencia, with information from the 2018 UPAA Yearbook: Mga Haligi ng Lahi)
2018 ALUMNI AWARDDEES
Why we celebrate... from page 1

THE PHILIPPINE NATIONAL GUARD

Two top leaders in the colonial government had pushed for PNG’s aid to the US in the War. These were American Governor General Francis Burton Harrison, an advocate of “Filipinization” and Manuel L. Quezon, then Senate President, who authored the McKinley Act that created the PNG. The Philippine Legislature approved it on March 17, 1917.

Quezon himself commended UP’s response. “Congratulate you and your college upon the splendid showing of devotion to country,” he said. UP’s more than 100 contingent added to around 14,000 PNG enrollees in the country who were trained in Camp Claudio, Paranaque.

According to Dr. Ricardo T. Jose, professor of history at UP Diliman, in his study “The Philippine National Guard in World War I” published in 1968 in the Philippine Studies, a journal of the Ateneo de Manila University, PNG was patterned after the US National Guard, an umbrella organization of reserve military force.

“The act was intended to be a show of loyalty to the United States, to impress upon the Americans that the Filipinos shared the same sentiments as their colonizers,” said Dr. Jose, of Harrison and Quezon’s initiative.

It would take almost a year for the United States to officially recognize the PNG. On January 20, 1918, US President Woodrow Wilson signed the law calling them for service. On October 8, 1918, the National Guard Day. The celebration that followed. On Oct. 11, 1919, the Filipinos were CEAT Dean Dr. Arnold Elepaño, dean of the College of Agriculture Student Body and Faculty, and should foster the spirit of loyalty among them.”

Dr. Dixon T. Gevaña, assistant professor at the Department of Social Forestry and Forest Governance, General of the US Army Command in the Philippines in Manila was,” Dr. Jose said. Dr. Jose noted that President Wilson’s approval revitalized the enlistment to the PNG from February to March 1918. This was because even prior to the approval of the United States, Harrison and Quezon had been recruiting thousands of volunteers for the PNG.

Trainings were being held from July to October 1918, but still, Dr. Jose’s sources said that by September 1918, more than 400 of the required workforce was unfulfilled. The call for PNG trainees reached UP amid the apprehensions and resistance from prospective volunteers. As Dr. Jose’s sources said, resistance was caused by people having to give up their work and pronouncements by a public official that volunteerism to the PNG was unnecessary. An influenza epidemic also spread in the camp, affecting 650 volunteers from all over the country.

At the height of preparations and trainings on November 11, 1918, however, World War I ended with an armistice. The PNG no longer had an actual War to fight in.

HOW LOYALTY DAY EVOLVED

The experiences of UP’s as volunteers to the PNG remained in the College’s collective memory in the months that followed. The memorable day was first celebrated as the National Guard Day. The celebration was highlighted by a combined military parade, a musical program, and a sports event.

In 1921, the UP Student Body passed a resolution to the UP Board of Regents (BOR) to declare October 10 as an official holiday in the College, to be called the Loyalty Day.

The resolution articulated: “The spirit of loyalty of the men who then offered their services, at the sacrifice of their study, should always be looked on with special regard by future members of the College of Agriculture Student Body and Faculty, and should foster the spirit of loyalty among them.”

By October 10, 1921, UP had begun considering Loyalty Day a campus holiday. The BOR would declare it as an official college holiday a little later, on January 10, 1922.

In 1933, Loyalty Day officially became UP’s alumni homecoming day, although as early as 1929, it was recorded that alumni working outside UP had attended the celebration.

Loyalty Day progressed as a grand event that attracted American governor generals, future and current presidents, and the American high commissioners. It served as a platform for them to talk about loyalty during the time when the United States was preparing the country for self-governance, and on national development at the beginning of the country’s independence.

As one looks back to the very beginning of the Loyalty Day, some may question its colonial context. One thing remains unchanged though: when the state called for brave volunteers, the UP community did not hesitate to stand up.

That alone was a reason for celebration—one that has lasted for 100 years, and counting. (Mark Jayson E. Gloria)

UPLB mountains biodiversity exhibit

Festive and critical is UPLB’s yearend exhibit “Art in Biodiversity.”

Exploring a wide range of mediums, styles and techniques, the group show brings together a select group of painters, sculptors, and mixed-media artists. It is a fitting tribute to UPLB on its 100th Loyalty celebration.

Most of the featured works are hinged on conservation as the raison d’être of biodiversity. Highlighted are flora and fauna that are rather peculiar in the country and the Southeast Asia. Endemicity, one of the hallmarks of biodiversity, becomes a turn.

A few artists, however, dare to take another equally important aspect of biodiversity: endangerment. Its urgency is evident in our quest for survival in the midst of finite resources available. This is biodiversity’s critical turn.

The artists’ pieces are a tapestry of visual communication, and viewers decode their meanings in more ways one could possibly imagine.

Hopefully, “Art in Biodiversity” would succeed not only in creating a platform for the celebration of biodiversity, but also in stirring public consciousness on its endangerment.

“Art in Biodiversity” opens at 4PM on October 8 at the Sining Makiling Gallery, DL Umali Hall, UPLB. Exhibit runs until December 2018. (Jerry R. Yap)

2 from UPLB awarded OYS

Two from UPLB were given the Outstanding Young Scientist (OYS) awards at the awarding ceremony of the 40th Annual Scientific Meeting of the National Academy of Science and Technology held on July 12 at the Manila Hotel.

Dr. Dixon T. Gevaña, assistant professor at the Department of Social Forestry and Forest Governance, College of Forestry and Natural Resources, received the OYS Award for his work in forest environmental science.

He pioneered research on mangrove blue carbon and tree biomass modelling and developed community-based stand management designs and strategies to best manage mangrove plantations. Mangroves mitigate climate change and promote local economic development.

Dr. Gevaña conducts researches on estimating ridge-to-coast forest carbon stocks emphasizing the importance of landscape management approach in studying linked ecosystems. Among his most cited research work is on tree biomass and carbon stock of a community-managed mangrove forest in Bohol, Philippines. It also assessed the tenure reform on Philippine forests and their socio-economic and environmental impact.

Dr. Jey-R S. Ventura, assistant professor at the Department of Engineering Science, College of Engineering, also received the OYS Award. His research with the University of Reading, co-Industrial Technology was given the OYS Award for his work in environmental engineering and biotechnology.

Dr. Ventura developed a technology that enhances sludge reduction and nutrient removal of domestic wastewater.

He developed a recombinant strain for improved yield of biobutanol production and explored other bioenergy platforms such as anaerobic digestion of food waste and biodiesel production from microalgae. Among his frequently cited works is his life cycle analysis of microalgae bioenergy routes.

Dr. Ventura leads three research projects, foremost of which is on polyhydroxyalkanoates production from agricultural residues. The project aims to produce a bioplastic material using cheap substrates to replace petroleum-based plastics or to produce a high value application of the produced material.

NAST Philippines was established in 1976 to provide meaningful incentives to those engaged in scientific and technological research, as well as give due recognition to outstanding achievements in science and technology. (Josephine M. Bo)

UPLB links... from page 1

highlighted by the turnover induction of four faculty members and researchers from UPLB who will be the pioneer batch to take the Dual PhD by Research at the Uni of Reading.

These are Aldo Gavioli Lim of the College of Development Communication, Guinevere Madlangbayan of the College of Public Affairs, and Emmanuel Genesis Anadl and Richard Daite, both of the College of Economics and Management.

Dr. Camahilo hailed the sending of the pioneer batch as “a sign that one of UPLB’s academic partnership initiatives is now bearing fruit. The Dual PhD by Research with the University of Reading is implemented under the auspices of the British Council-Commission on Higher Education (BC-CHE) Transnational Education-Joint Development of Niche Programs. The program is funded by the British government and CHEd.”

After the visit at the Uni of Reading, the UPLB delegation proceeded to the University of Surrey and the University of Liverpool for the next academic partnership meetings on joint graduate programs and collaborative research.

With the delegation to the United Kingdom were CEAT Dean Dr. Arnold Elepaño, dean of the College of Engineering and Agro-Industrial Technology; Dr. René Camisa, vice chancellor for research and extension; Dr. Eduardo Torres, dean of the College of Veterinary Medicine; Dr. Shyda Mapena, director for international linkages; and Anna Firminosa, faculty member at the College of Economics and Management. (Josephine M. Bo)
This is a report on the highlights of our accomplishments a year (Nov. 2017-Oct. 2018) after our team was given a fresh mandate to manage and take care of UPLB. It covers milestones made in that period with references to accomplishments during our first term (Nov. 2014-Oct 2017).

We pursued initiatives guided by our vision-mission of a globally competitive graduate and research university contributing to national development, focusing on three key goals, namely: to sustain UPLB’s academic leadership and excellence, promote the use of its knowledge and technologies towards attaining inclusive growth, and create an enabling environment for creativity and innovation to flourish.

I. GLOBAL AND NATIONAL QUALITY ASSURANCE

5 ASEAN University Network-Quality Assurance (AUN-QA) certifications
85 Agriculture
85 Agricultural & Biotechnology Eng’g
85 Biology
85 Development Communication
85 Forestry

II. UPdateING CURRICULAR PROGRAMS AND HUMAN RESOURCE DEVELOPMENT FOR QUALITY ASSURANCE

For global competitiveness, we revised undergraduate degree programs and aligned them with the K-to-12 program, taking the opportunity to also integrate entrepreneurship in view of the paradigm shift from production agriculture to the value chain perspective.

We conducted the series of Training-Workshops on Outcomes-Based Education for Quality Assurance to capacitate faculty members in drawing up learner-centered learning outcomes. Moreover, we trained faculty members to equip them with innovative teaching skills appropriate for today’s learner.

28 BS/BA degree programs revised/aligned to K-to-12 and to integrate entrepreneurship and to add more lab subjects

667 faculty members from 10 units trained in Outcomes-Based Education for Quality Assurance

III. MULTIDISCIPLINARY AND COLLABORATIVE PROGRAMS FOR INTERNATIONALIZATION AND CAPACITY BUILDING

We instituted new modes of delivery of postgraduate programs to provide a fresh and dynamic, multidisciplinary, and multicultural perspective to the training and education of faculty members.

1st & only Asian Satellite Campus of Nagoya University in the Philippines
1st to offer Dual PhD by Research with Uni of Reading, UK; Curtin Uni, Australia, and UP Mindanao

IV. SCIENTIFIC PRODUCTIVITY, INNOVATION, AND TECHNOLOGY COMMERCIALIZATION

UPLB Technologies commercialized by the private sector
3 papaya hybrids, 1 microbial remedi, 1 biocontrol agent, 1 bioplastics, 7 biorefiners, 2 coating products to delay fruit opening

For productivity and innovation to continue to flourish, we have set up the Technology Hub adjacent to Baker Hall. It will become a venue for collaboration and will promote the birth of new concepts, innovations, research projects, and technologies.

UP Scientist awardees from UPLB (2018)
U-P Scientific Productivity System

31 from UPLB

13 from UP Diliman

10 from UP Manila

14 from UP Baguio, UP Visayas, & UP Mindanao

Total: 68

R&F funds 2015-2018*
Government funding agencies 2.2188
International funding agencies 0.0468
Local/Private funding agencies 0.0678

TOTAL 2.3288

*UP-USF record

Completed research projects 2015 - 2018
2015: 269
2016: 238
2017: 261
2018: 370 (as of Sept. 2018)

Interdisciplinary Studies Centers
• Food and Nutrition Security
• Climate Risks
• Integrated Natural Resources and Environment Management
• Biodiversity
• Nanotechnology
• Bee Program
• Natural Products
• Organic Agriculture
• Water
• Life Cycle Assessment Laboratory
• Philippine Genome Center Agriculture, Livestock, and Fisheries

Scientific Journals
• The UPLB Journal
• Ecosystems and Development Journal
• Philippine Agricultural Mechanization Journal
• Philippine Journal of Agricultural and Biosystems Engineering
• Museum Publications in Natural History
July - September 2018

Public service through the National Corn-based Farmer Scientist RDE Training Program (FSTP)

PSP 2.0 million addl funds provided by UPLB to FSTP; annually, FSTP has helped 72 municipalities in 34 provinces in Regions 7-13.

24 years of service through the Uplanang Pahinungod

V. INFRA AND FACILITIES DEVELOPMENT

67 infrastructure projects worth PhP 2.1 billion, 2015-2017
- Academic buildings
- Roads and bridges
- Small classrooms
- Upgraded restrooms

Some major buildings in various stages of procurement & construction

College of Economics and Management, Graduate School International Students and Cultural Center, Philippine Center for Tropical Forest Science, UP Rural High School Senior High School Building, Philippine National Collection of Microorganisms, National Plant Genetic Resources Laboratory, Nanoscience and Technology Facility, Philippine Genome Center Agriculture, VetScience, and Fisheries Building, School of Environmental Science and Management, Sports Complex Facilities, Feed Processing Research Center, University Health Service Extension Building

These infrastructure projects are part of the overall plan for the UPLB landscape and infrastructure development of the UPLB Master Plan that we are putting into place. The Master Plan divides the campus into different complexes composed of buildings and other facilities based on their functions and use.

UPLB Master Plan

 Zones in the UPLB Campus Master Plan
- Global Academic Zone
- National Academic Zone
- Mass and Residential Housing
- Administrative and Research
- Central Characteristics

VII. A CLEAN AND RESILIENT CAMPUS

Improved UPLB internet connectivity
- Increased bandwidth from 103 Mbps to 2.155 Gbps
- Implementing 5-phase fiber optic project
- Set up 250 WiFi hotspots all over the campus

Upgraded electricity infra & supply
- PNP 11.099 million to upgrade overhead lines at Forestry
- PNP 0.643 million labor to replace overhead lines
- PSP 8.5 million to replace 110 V with 220 V transformers
- PNP 13.4 million to replace back-up power generators acquired
- PNP 19,834 million to replace sodium vapor with LED lamp rights
- FAC 1.60 million to replace overhead & secondary electrical lines at BIOTEC
- Generated savings as direct member of the Wholesale Electricity Spot Market

PSP 290 million to refurbish & re-equip laboratories in 9 colleges/school with support from UP System, DA-BAR, DOST and its councils such as PCAARRD and PGEDRD, USAID Science Technology, Research and Innovation for Development Program, Tokyo University of Agriculture, South Korea-Austen Food and Agriculture Cooperation Initiative, private sector

VI. ENHANCED & PROFESSIONALIZED SECURITY PERSONNEL

Security personnel
- 45 University Police Force (UPF)
- 73 Community Support Brigade (CSB)
- 63 Blue Guards

Training programs attended by UPF and CSB
- Traffic enforcement
- Disaster risk reduction and management
- Search and rescue operation
- First responder and first aid
- cave rescue
- Hand held radio operations
- Gender sensitivity
- Drug addiction and prevention

VIII. UPHOLDING THE WELFARE OF STAFF AND STUDENTS

Faculty and REPS welfare
- Implemented policy that paved way for tenure to 31 REPS
- Organized ad hoc committee on REPS welfare
- Endorsed REPS promotion guidelines to the Office of the President
- Promoted 86 REPS from 2015 to 2018
- Established Academic Development Fund for faculty & REPS
- Filled up 83 new faculty items

Student welfare
- Initiatives in dormitories
  - Repairs & renovations
  - Replaced over 2,000 dorm mattresses
  - Installed CCTV, free WiFi access
  - Installed landline & mobile phones
  - Allocated space for computer rooms
  - Periodic fumigation
  - Equipped dorms with sports facilities

- Equipped dorms with furniture for group meetings
- Inter-dorm sports fest held as part of total wellness campaign
- Dorm managers trained in wellness counseling

Academic & financial support to students
- Provided tutorials to 3,500 students
- Conducted Summer Bridge Program in mathematics
- Conducted customized training programs to 160 students in 15 topics
  - On top of free tuition, continued to implement
    - Student Loan Board
    - Emergency Cash Loan w/ minimal interest
    - Student Assistance Program
    - Private & government scholarships

Staff housing initiatives
- “Ayos Saturday” mobile service repair
- Responsible pet ownership drive
- Recycled/converted legacy housing into staff housing units
- Organized neighborhood associations

Improved health service
- Institutionalized health programs
- Established clinic for in-house medical health professional
- Facilitated donations of bed linens, pillow cases, hospital gowns
- Facilitated donations of medical equipment & supplies

Institutionalized health programs
- UHS Diabetes Mellitus Health Education Program
- UPLB Quit Smoking Support Program
- UHS Nutrition Counselling Program
- Elderly Development Program
- UHS Mass Immunization Program
- UPLB Health Maintenance Organization
- UPLB Community Chest

IX. EXPANDED ALUMNI NETWORKS

- Designed & deployed Alumni Information Database System
- Published electronic newspaper for alumni: "UPLB Now"
- Developed/managed alumni website
- Relaunched "Alumni Espasyal" privilege card
- Facilitated donations for student scholarships
**“Pamantasang Hirang” is 100th LD theme song**

An original composition that pays homage to the University hymns, “UP Naming Mahal,” and the agricultural roots of UPLB, has been declared as the official song of the UPLB Centennial Loyalty Day.

Composed by alumna Kim Camille Beltran, and students Kim Rasel Gutierrez and Ivan Ulgado, “Pamantasang Hirang” speaks about the seeds that the University has sown in its students, and celebrates the fruits of its labors which it offers to the Filipino people.

“Pamantasang Hirang” bested six other finalists in the music competition that was held to jump-start the celebration of the 100th Loyalty Day. The songs written were based on the 2018 UPLB Loyalty Day theme “100 Years of Uplifting People’s Lives and Beyond.”

During the performance night on Aug. 30 at the REDREC Auditorium, Harmony: The String Ensemble of UPLB, which counts the composers as its members, together with guest keyboardist Rudy Racino and flutist Marcelo Espiritu accompanied singers Franz Oliva, Odraude Alub, Pearl Stephanie Orendain, and Bianca Meer in interpreting the winning song.

The cash prize for “Pamantasang Hirang” is PHP 25,000. The song will be performed at the Centennial Loyalty Day Alumni Awarding Ceremony on Oct. 9.

The music and songwriting competition was organized by the Office of Alumni Relations and the UPLB Alumni Association (Jessa Jael S. Arana)

**Class ‘68 puts up waiting sheds in the campus**

UPLB is noted for sudden downpours, and within minutes, the sun shining high and hot, or vice versa.

Thus, a shelter from the elements is always welcome when one is on foot or waiting to take a jeepney ride.

With this in mind, the members of UPC Association. (Jessa Jael S. Arana)

PHILPOST/PNB Area, and opposite the College of Engineering and Agro-industrial Technology.

The sixth will be constructed at the Calixto Mabesa Hall Area along Makiling Road, across the College of Forestry and Natural Resources administration office.

Each waiting shed has a floor area of 4m x 3m, with 12mm thick concrete slab, metal trowel and maroon color additive floor finish, and stamp concrete floor pattern or tile finish.

The donors, led by Dr. Reynaldo L. Villareal, Golden Jubilarians Class ‘68 president, said that the waiting sheds are durable, termite-resistant, and can withstand hazardous weather conditions.

Nazario S. Racoma, member of Class ‘68 and chair of the ways and means committee of the Centennial Loyalty Day celebration, designed the waiting shed. Class ‘68 hopes that it will become the standard waiting shed prototype in the campus.

Local construction workers were tapped to build them to help generate more labor and income for the people of Los Baños.

The infrastructure project was implemented in cooperation with the University Planning and Maintenance Office. (Juan Paolo A. Aquino)