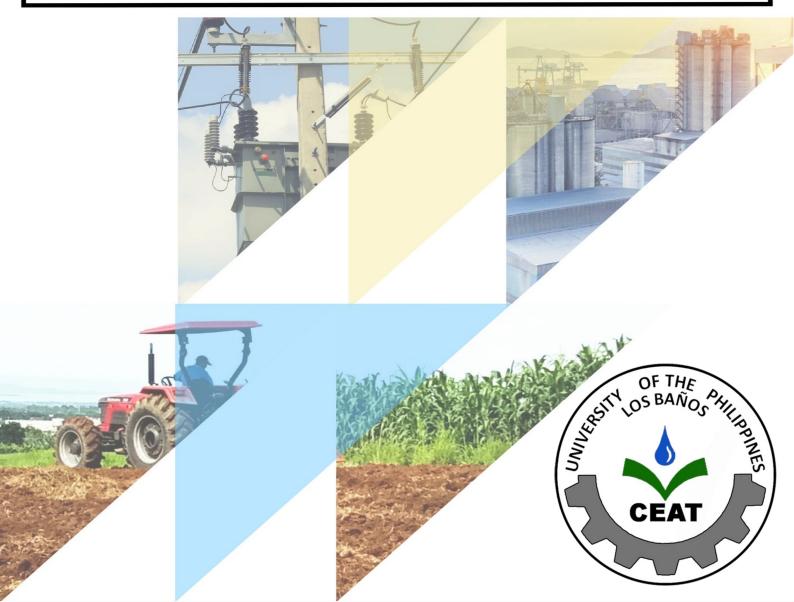


CEAT in Motion

Taking Great Leaps toward Honor and Excellence





The CEAT's End-of-Term Report October 2014 – November 2017

CEAT in Motion

Taking Great Leaps toward Honor and Excellence

Printed in December 2017

For more information, please visit us at www.ceat.uplb.edu.ph or contact:

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CEAT IN MOTION

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CEAT Executive Committee

In the Pipeline

LIST OF ACRONYMS

ABONO- Abono Partylist Agricultural Development Scholarship Grant

ABPROD- Agricultural and Bio-Process Division

AMTEC- Agricultural Machinery and Testing Evaluation Center

ARDS— Agricultural and Rural Development Scholarship

BIOMECH- Center for Agri-Fisheries and Biosystems Mechanization

BSABE- Bachelor of Science in Agricultural and Biosystems Engineering

BSAE- Bachelor of Science in Agricultural Engineering

BSCE- Bachelor of Science in Civil Engineering

BSChE- Bachelor of Science in Chemical Engineering

BSEE- Bachelor of Science in Electrical Engineering

BSIE- Bachelor of Science in Industrial Engineering

CEAT— College of Engineering and Agro-Industrial Technology

CHED- Commission on Higher Education

DA-ACEF- Department of Agriculture- Agricultural Competitiveness Enhancement Fund

DOST – Department of Science and Technology

ERDT- Engineering Research and Development for Technology

GSIS- Government Service Insurance System

OAR- Office of Alumni Relations

OSA- Office of the Student Affairs

OUR- Office of the University Registrar

OWWA- Overseas Workers Welfare Administration

LGU- Local Government Unit

SLB- Student Loan Board

SMFI-SM Foundation Inc.

SMF-SM Fund

STS- Socialized Tuition System

SYDP- Scholarship and Youth Development Program

TFE- Tuition Fee Exception



MESSAGE FROM THE DEAN

"Let us remain united for the continuous growth and development of our college to reach our goal of being an excellent and innovative engineering college."

The past six years of our term in the college have been remarkably fruitful and productive. I am honored and grateful that our colleagues helped in achieving all that we have accomplished for the past years. Thus, I would like to express my gratitude to everyone especially the CEAT Executive Committee and to the Office of the Chancellor for their ceaseless support.

This End-of-Term Report entitled "CEAT in Motion: Taking Great Leaps toward Honor and Excellence" is the continuation of our report book "CEAT by the Numbers". All that we have done and achieved in CEAT in between October 2014 to November 2017 are included in this book. I hope that you find this report helpful and informative.

I am asking everyone to keep on pouring your support and cooperation as we take greater leaps toward honor and excellence. Let us remain united for the continuous growth and development of our college to reach our goal of being an excellent and innovative engineering college.

DR. ARNOLD R. ELEPAÑO

ABOUT THE COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY



The College of Engineering and Agro-Industrial Technology (CEAT) traces its roots to the former Department of Agricultural Engineering created in 1912 as one of the departments of the UP College of Agriculture. In 1976, the Department of Agricultural Engineering was elevated to the Institute of Agricultural Engineering and Technology (INSAET). On February 24, 1983, CEAT was finally established upon the approval of the UP Board of Regents in its 958th meeting.

Since its institution, CEAT envisions itself to be a premier institution of higher learning in engineering education; a center of excellence in engineering instruction, research, and extension; a leader in the generation and promotion applied technologies; and a partner of the government, industries, and international agencies for agroindustrial development. It aims to upgrade and continually improve and develop its programs to be become one of the best engineering colleges in the country that will produce quality graduates, who will generate innovational technologies that will serve the Filipino people.

Further, it aims to generate and promote appropriate engineering technologies and establish a strong academe-government-industry-international agency partnership that will lead to coordinated programs geared towards national and international development. Hence, this will make CEAT a model of other engineering schools in the country.

In the present, CEAT consistently produces top graduates in all fields of engineering for managerial positions in government and private agencies. It also has an outstanding tracking record of passing rates and top ranking scores in national government licensure examinations.

CEAT also focuses in research, development and extension programs to give solutions in various problems in agriculture and food security, energy, and climate change and the environment. The College pursues research collaborations with government and non-government organizations, the private sector, and international organizations towards the development of the country's engineering sector. CEAT also implements extension projects for the benefit of engineering stakeholders, particularly the farmers.

OBJECTIVES/ GOALS

The College of Engineering and Agro-Industrial Technology (CEAT) aims to:

- Produce quality engineering graduates needed for agricultural and industrial development of the country;
- •Advance the frontier of knowledge in engineering and generate technologies in support of the agro-industrial thrusts of the country; and
- •Promote the utilization of useful technologies by proper private sectors.

Source: UPLBAA Centennial Panorama Coffee Book

EXECUTIVE SUMMARY

Since 2011, as we start our first term at the College of Engineering and Agro-Industrial Technology (CEAT), we created our own vision, mission and strategic thrusts to reach our goals and objectives. We have made our own strategic thrusts and programs in alignment to the University of the Philippines System's vision and mission, as well as of the VMGs of the UP Los Baños'.

We have made four (4) strategic thrusts to help us reach our goals for the college- (1) Broaden Learning Environment, (2) Improve Research's Volume, industry academe linkages, and reputation, (3) Increased refereed articles in journals, and (4) Enhanced Local and international exposure for staff and students— which are also divided into more specific details. For the past years, we have made progress using these thrusts as guidelines.

The start of our second term in office was eventful as our research and extension program BIOMECH was elevated from a research program into a Center in 2015 by the UP Board of Regents. We continue in uplifting our standards to sustain honor and excellence within our students, faculty and our programs. As a result, the Institute of Agricultural Engineering was identified as a National Center for

UP System

A great university, taking a leadership role in the development of a globally competitive Philippines



UPLB

A globally competitive Graduate Research University contributing to national development



CEAT

Excellence in engineering education, research and extension; committed to progressive transformation and global relevance of Philippine Agriculture and Industry



Research Development and Extension. Meanwhile, the BS in Agricultural and Biosystems Engineering was recognized as Center of Excellence (CHED) and had passed the assessment of the AUN-QA. The BS Chemical Engineering was also identified as a Center of Development.

We supported our faculty and researchers in their pursuit of taking higher studies. We pushed them to apply for scholarship grants within and out of the country to broaden their knowledge and skills in their field. We invested in the improvement of our facilities and bought new equipment to improve learning outcomes for both students, researchers and faculty.

We encouraged our faculty and researchers to make research works and projects that will impact the society, and to publish it to reach and to disseminate new information to the target beneficiaries especially the farmers.

We actively participated in different social events in the university to strengthen unity, cooperation and smooth relationships between students, faculty and staff. We welcomed meetings with companies, local and international visitors to strengthen academeindustry linkage.

And as for the years to come, CEAT will continue taking greater leaps to achieve continuous honor and excellence; thus, we ask for continuous support for the college.

A C A D E M I C P R O G R A M S

UNDERGRADUATE PROGRAMS

BACHELOR OF SCIENCE IN AGRICULTURAL AND BIOSYSTEMS ENGINEERING

This undergraduate program provides the basic education developing skills and professional knowledge common to the specialized fields of agricultural and biosystems engineering. The curriculum integrates engineering science and design with applied biological, environment and agricultural sciences that allows the students to develop professional command of a particular specialized area of discipline such as agricultural power and machinery for bio-production systems, agricultural and bio-process engineering, agrometeorology, and farm structures or land and water resources engineering. The BS curriculum provides the basic entry level competencies into engineering design, biosystems and agro-industrial development, operation and services including teaching and research.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

This undergraduate program aims to meet the technical manpower requirements of the newly emerging agri-based industries and traditional chemical process industries, specifically in the area of bioprocess engineering and chemical process engineering. Chemical engineers with some understanding of bioprocesses are needed to scale up production from laboratory to bench levels into the industrial level. In the long run, local processing of raw materials into consumer and industrical products should help Raise rural income, generate foreign exchange, And protect the Philippine economy from adverse external trade conditions.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

This undergraduate program aims to produce civil engineers whose expertise is indispensable for the design and construction of infrastructures for public and private use. It is dedicated in preparing its students to become globally competetive engineers by educating them with the basic principles of structural, hydraulic, geotechnical, transportation, sanitary, and environmental engineering and construction management. The department aims to produce well-rounded graduates that can become industry leaders and pioneers in research and development.

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

This undergraduate program offers an excellent opportunity for the students to acquire solid academic preparations in electrical and electronic circuit theory and analysis. Graduates of the program are expected to be fully equipped and able to enhance the level of their competencies as they chart their professional careers in the development mainstreams, particularly in power, electronic, and computer engineering including equipment/instrument design.

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

This undergraduate program aims to enable its students to have the competence to plan, design, install and evaluate integrated systems of personnel, materials, equipment, energy and information in ways that reduce costs and increase systems efficiency and effectiveness. Through the program, the students are provided technical competencies for industrial systems analysis, design and management.

A C A D E M I C P R O G R A M S

GRADUATE PROGRAMS

MASTER OF SCIENCE (MS) AND DOCTOR OF PHILOSOPHY (PhD) IN AGRICULTURAL ENGINEERING

FARM AND POWER MACHINERY

The field of Farm Power and Machinery involves the application of mechanical, physical, biological and electronic principles to the solution of reallife problems or issues in crop/fruit/vegetable production and processing. Among others, the coursework includes the study of theories of soil failure, traction, compaction and floatation on agricultural soils; dynamics of seeding and transplanting, soil-seed and seedling machine interactions; principles of digital and analogue measurements and control of temperature, humidity, strain, moisture content, pressure and fluid flow in engineering process; methods of testing and inspection of engineering materials, strain measurement, brittle-coating, and related instrumentation; and design of energy systems using conventional, non-convential, renewable and other alternative power sources.

AGRICULTURAL AND BIO-PROCESSING

The field of Agricultural and Bio-Processing (ABPRO) covers the gamut of handling and storage of crops in fresh form from farm to market, to processing of agricultural materials into food, feed products and industrial products. Loss reduction, quality retention, improved efficiency and cost-effectiveness of the various postharvest and processing operations are prime considerations in development of technologies for ABPRO. Coursework covers heat, mass and momentum transfer, crop processing operations, physical properties of agricultural materials and refrigeration systems. Students are also encourage to enroll in elective courses in other colleges of UPLB to broaden their perspective and increase their understanding of biosystems. These electives generally include courses in animal science, postharvest horticulture, agricultural economics and food science.

LAND AND WATER RESOURCES

The core content of the curriculum focused on land and water resources engineering, which is designed to provide graduates with the ability to impart knowledge in resources development and management, and to conduct a sharply focused and detailed academic research.

MASTER OF SCIENCE (MS) IN AGROMETEOROLOGY

The MS in Agrometeorology is an interdisciplinary field which relates the elements of atmospheric environment with agribusiness operations. It is designed to prepare students to deal with the weather-related problems affecting agricultural activity from the long-range planning to the daily operations.

MASTER OF SCIENCE (MS) IN CHEMICAL ENGINEERING

This MS program provides chemical engineers a greater opportunity for improving or developing further their capabilities in providing quality instruction and in undertaking research and development projects. Those pursuing the MS in Chemical Engineering with specialization in Pollution Engineering will have the opportunity to help solve some pollution problems through chemical engineering solutions.

BROADEN LEARNING ENVIRONMENT

The College of Engineering and Agro-Industrial Technology now holds the second rank in terms of student population in the university as per the record of the University Registrar. To sustain this, we made sure that our students will feel safe, comfortable and satisfied inside the premise.

We made programs and courses that will deal with their needs in their chosen degree aligning it with the demands of the industry. We hired competitive and efficient educators as our faculty members who will help our students in their academic performance, and we supported

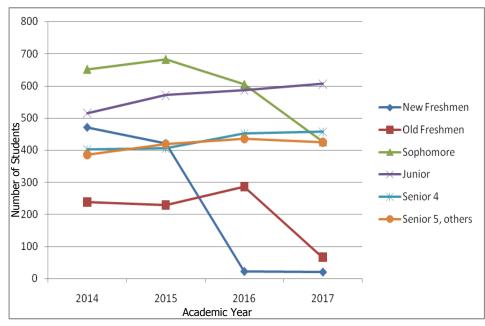
them in their goals to pursue higher studies. We also tapped our alumni and other generous hands who will help us in assisting our students in their financial needs.

We are aligning our programs to the present K-12 and Outcome-Based Education (OBE) curriculum in order to reach the desired level of competency. With the help of our staff and faculty, we have now gained our assessment from the AUN-QA in 2015 and CHED as a Center of Excellence (IAE) and Center of Development (DChE) in 2016.

Enrollment Trend

The shift in the academic calendar of the UP System which started last Academic Year 2014–2015, in alignment to the calendar of prospective international students, resulted to low New Freshmen enrollees of the following years (see

graph below). The New Freshmen enrollees mostly came from private schools in the country that are already offering the K-12 curriculum or the twelve years of basic and intermediate studies, just before its implementation in



the country. Hence, it affected the college's enrollment record as it has decreased in numbers starting 2016 up to this year as shown in the table below.

Among the five undergraduate programs offered by the college, the BS Chemical Engineering and BS Civil Engineering ranked as the top 2 programs with most number of enrollees followed by BS Electrical Engineering, BS Industrial Engineering and BS Agricultural and Biosystems Engineering with BS Agricultural Engineering.

Degree	1 st Sem	2 nd Sem	MID- YEAR TERM	1 st Sem	2 nd Sem	MID- YEAR TERM	1 st Sem	2 nd Sem	MID- YEAR TERM	1 st Sem (2017-
		(2014- 201	15)		(2015- 201	6)		(2016- 2017	7)	2018)
BSABE	358	345	201	387	379	212	343	334	162	282
BSAE	38	32	13	20	14	7	7	6	1	2
BSChE	656	631	342	653	633	392	575	547	286	522
BSCE	638	619	360	670	651	356	610	583	314	477
BSEE	568	545	226	586	566	240	512	471	185	410
BSIE	406	390	187	410	378	204	340	318	201	286
TOTAL	2664	2562	1329	2726	2621	1411	2387	2259	1149	1979

Scholastic Status of Students

To maintain competitiveness within the college premise, we keep on track the students' Scholastic Standing through the help of the Office of the College Secretary.

According to their report for the years 2014 to 2017, 1% of the students ranked as University Scholars, 6% as College Scholars, 10% as Honor Rolls, 52% got Good standing records, 17% have warnings, 7% got probation

statuses, 2% have double probation, 2% got dismissed while 3% got permanently dismissed, and 0.0045% has the record of extension of residency and leave of absence (LOA).

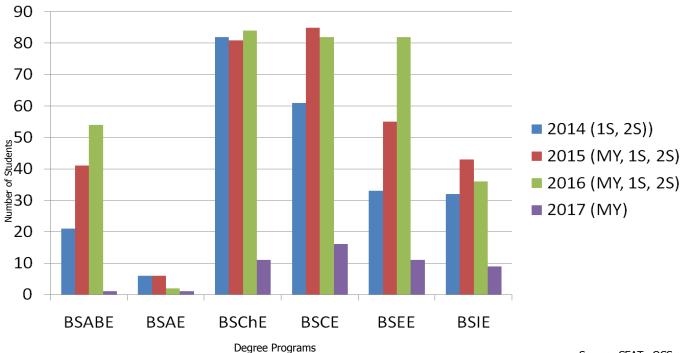
Excessive absences, poor scholastic standing and dropping in the class are the main reasons why some students are undergoing probation, double probation and dismissed status.

Scholastic Standing	1 st Sem (2014-2015)	2 nd Sem (2014-2015)	1 st Sem (2015-2016)	2 nd Sem (2015-2016)	1 st Sem (2016-2017)	2 nd Sem (2016-2017)
University Scholar	36	39	41	28	33	36
College Scholar	174	155	187	141	124	98
Honor Roll	299	251	286	268	190	164
Good	1297	1448	1419	1419	1170	1114
Warning	466	397	447	454	442	441
Probation	228	142	198	161	224	193
Double Probation	28	41	29	47	48	60
Dismissed	30	27	37	33	43	65
Permanently Disqualified	97	60	72	69	101	53
No Basis (Residency, LOA)	9	2	10	1	12	35
Total	2,664	2,562	2,726	2,621	2,387	2,259

CEAT Graduation Report

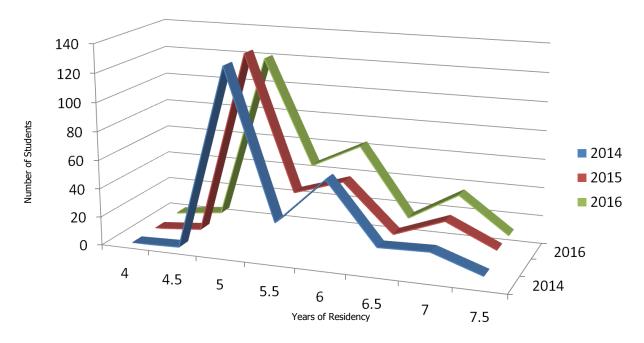
For the past three years, we have produced 936 graduates under the five (5) degree programs of CEAT. This number is 25% higher than the previous term's graduation record which has 702 graduates. We also recorded 73 engineering students who graduated with Latin Honors—66 Cum Laude and 7 Magna Cum Laude.

The Department of Chemical Engineering has the highest number of produced graduates, followed by the Civil Engineering, Electrical Engineering, Agricultural and Biosystems Engineering with the remaining students under the BS Agricultural Engineering program (before its revision to BSABE in 2011) and the Industrial Engineering as shown in the graph below.



Source: CEAT- OCS and OUR

Number of Years of Residency of CEAT Students



Shown in the graph above is the span of years which the CEAT students stay in the university for the past three years. It shows that most students finished their degree in five (5) years which is the time span allotted in their curriculum. We also have recorded that a student from the Civil Engineering finished the degree in 4 years for this term.

According to the OCS, the primary reason of the students' extension in residency is due to delay in their practicum and thesis works, while other students have undergone probation due to poor scholastic performance and excessive absences.

Delinquent students (categorized as Dismissed and Permanently disqualified) can apply for readmission for the next semester which is subject to the approval of the Office of the Dean and Office of the Vice Chancellor for Academic Affairs. This is in itself have caused the students to stay longer in the university.

PERFORMANCE IN LICENSURE EXAMINATIONS

Through the innovative programs of CEAT and with the help of our faculty and staff, the graduates of our degree programs gained recognition in various government-administered examinations.

We consistently hold ranks in Top Performing School in the Agricultural Engineering Licensure Board Examination, a title given for a school with 50 or more examinees and with a result of at least 80% passing percentage. We are also taking spots as a top performer in both Chemical and Civil Engineering Board Exam. In the Electrical Engineering Licensure case, we consistently holds a 100% passing rate although we are not on the top performers' spot due to the number of our examinees. Still, we are setting a record of consistent perfect percentage for many years now.

We continuously hold these records by helping our students learn and understand the vision and mission of CEAT as a student. We are doing strategies and steps to continue uphold the excellence in our field and motivate our students to make use of their learning in the future and be worthy of the recognition. With this, we continue reaping the victory of our students with their performances in their fields.

We started participating in the Industrial Engineering Certification Board last year 2016. We are also encouraging our undergraduate Electrical Engineering students to take the Registered Master Electrician Examination as a preparation for their future licensure board exam.

8 CEAT in Motion

LICENSURE BOARD EXAMINATIONS RESULT OF CEAT STUDENTS October 2014— November 2017

October 2014– November 2017								
LICENSURE / CERTIFICATE *EXAMINATION	DATE	PASSING RATE	TOPNOTCHERS	REMARKS				
	July 2014	97.14% (34/35)	2 nd , 5 th , 7 th , 8 th	Top Performing School				
AGRICULTURAL ENGINEERING	August 2015	89.74% (35/39)	3rd	Top Performing School				
ENGINEERING	August 2016	96.00% (48/50)	2 nd , 3 rd , 4 th , 6 th , 9 th	Top Performing School				
	August 2017	98.33% (59/60)	4th	Top Performing School				
	November 2014	86.27% (44/51)	3 rd , 8 th , 10 th	2 nd Top Performing School				
	May 2015	75.76% (25/33)	3 rd , 7 th	-				
CHEMICAL	November 2015	69.86% (51/73)	-	-				
CHEMICAL ENGINEERING	May 2016	86.49% (32/37)	3 rd , 7 th	-				
	November 2016	90.20% (46/51)	-	2 nd Top Performing School				
	May 2017	88.89% (32/36)	-	2 nd Top Performing School				
	November 2017	86.89% (53/61)	-	2 nd Top Performing School				
	December 2014	100% (72/72)	-	Top Performing School				
	May 2015	90% (9/10)	-	-				
CIVIL	November 2015	96.61% (57/59)	-	Top Performing School				
ENGINEERING	May 2016	96.43% (27/28)	8 th	-				
	November 2016	95.16% (59/62)	1st	2 nd Top Performing School				
	May 2017	96.15% (25/26)	3 rd	-				
	November 2017	96.55% (56/58)	-	2 nd Top Performing School				
	September 2014	100% (26/26)	-	ı				
	April 2015	100% (12/12)	7 th	-				
	September 2015	100% (20/20)	-	-				
ELECTRICAL ENGINEERING	April 2016	100% (36/36)	7 th , 8 th , 9 th	-				
	September 2016	100% (21/21)	-	-				
	April 2017	100% (36/36)	2 nd , 3 rd , 5 th , 7 th , 8 th , 9 th					
	September 2017	100% (30/30)	7 th	-				
INDUSTRIAL ENGINEERING*	December 2016	100% (18/18)	8th, 9th, 10th	-				

Source: CEAT- OCS, PRC and DCE

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CEAT as a Center of Excellence and Development



In the Commission on Higher Education's Memorandum Order No. 33, Series of 2010, Center of Excellence was defined as "a teacher education program in a higher education institution, which continuously demonstrates excellent performance in the areas of instruction, research and publication, extension and linkages, institutional qualifications and provides excellent quality pre-service teacher education program to meet the needs of progressive teachers for elementary, secondary and special education programs in the Philippines".

On the other hand, Center of Development refers to a teacher education program within a higher education institution, which demonstrates the potential to become a Center of Excellence in the future".

Hence, we are honored that our field of Agricultural Engineering was accredited as a Center of Excellence effective April 2016 to December 2018 while our Chemical Engineering received a Center of Development effective January 2016 to December 2018.

These certifications are proofs that the faculty and staff's efforts to be an innovative college are paid-off. Although it will still be a long way to go for we have to improve (COD) and maintain (COE) these statuses, this is already a starting point for us to continue the steps that we have made to achieved these credits.

Aside from that, our program, Bachelor of Science in Agricultural Engineering (BSABE) also passed the assessment of the ASEAN University Network— Quality Assurance (AUN-QA) in 2015 with a final verdict of 5.0, a grade above the required passing rate.

Now that we have passed the AUN-QA assessment, we are now in action to meet the requirements in joining the Washington Accord to keep in par with the engineering standard of the international arena.

These achievements of the college are enough reasons for us, staff and faculty, to continue doing our best in order to develop and produce high quality engineering graduates who will be a productive workforce in the Philippines and in the world.

We will continue thinking, planning and making innovative and innovational frameworks to meet the needs of the globalized agricultural and engineering industry. We will keep on using and utilizing our knowledge, and share it to our constituents, in order to continue achieving honor and excellence.

K-12 and Outcomes—Based Education Curriculum

The K to 12 basic education was implemented nationwide by the Department of Education (DepEd) to align our curriculum to the global standard and to make it easier for international mobility. With this curriculum, our High School students will be equipped with necessary skills during Senior High.

On the other hand, the Commission on Higher Education's Outcome- Based Education (OBE) Curriculum Framework is defined as a paradigm shift from traditional education system into an OBE system. This curriculum gives greater emphasis on the program and course outcomes; student-centered teaching and learning activities; regular assessment and

evaluation and continuous improvement of the program.

In the present, CEAT has adapted both the K to 12 basic curriculum and the Outcome-Based Education (OBE) Curriculum to align with the present education mandated by CHED and the Department of Education.

First in our plans is the ongoing curricular revisions and improvement of our engineering programs to make the five year curriculum into 4 years (see table on next page) with the incorporation of K-12 and OBE curriculums. To keep at par with other universities in the world, the said curriculums can help us in fo-

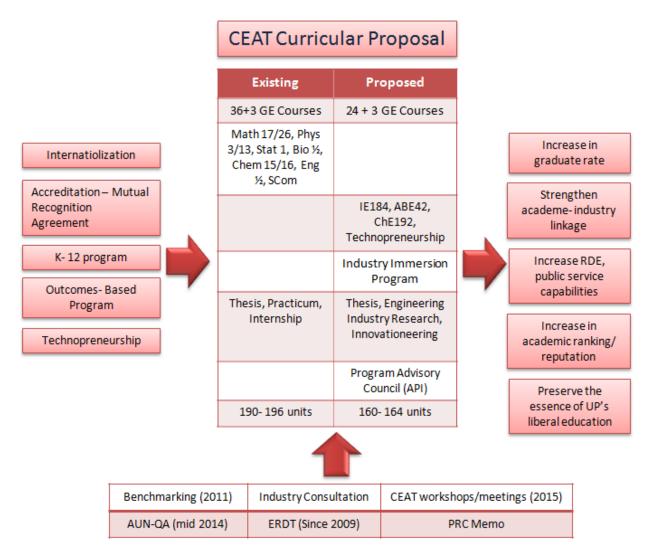
cusing on the progress and outcomes of our engineering students especially that we are in the 21st Century.

After passing the AUN- QA assessment, we are also planning to join international engineering consortiums such as Washington Accord to continuously enhance the reputation and expand linkages of our college.

We are also incorporating technopreneurship (entrepreneurship with touch of engineering),

innovationeering (innovation with engineering) and Engineering Industry Research (formerly practicum) in our curriculum to prepare our students in going out of the university.

We believe that adapting the curricula and shifting to a more advanced way of teaching our students will help us improve our educational system; more so, it will help in preparing our students to face the real world once they leave the college and the university.



BIOMECH as a Center for Research*

The Center for Agri-Fisheries and Biosystems Mechanization (BIOMECH), former Agricultural Mechanization Department (AMD), is one of the research and extension arms of CEAT, along with AMTEC. Both programs have national and international importance and are conducting separate consultative workshops in hope of strengthening its institutional capabilities.

As an innovative college, we aspire to boost our research ability by stepping into a higher level of recognition. And in response to its expanded

role in the enacted Republic Act 10601 otherwise known as the Agricultural and Fisheries Mechanization Act of 2013, BIOMECH was elevated into a Center from a mere program by the UP Board of Regent on its 1312th meeting in October 29, 2015.

The Center is mandated to lead and coordinate the agricultural and fishery mechanization Research, Development and Extension program of all academic institutions in the country.

*Source: CEAT Institutional Self-Assessment Report

INCREASE IN TOP QUALITY MENTORS

As part of our responsibility as a college, CEAT makes sure to only hire the best and top quality personnel who will be part of our Faculty. As of now, we have a total number of 128 faculty members (from 86 faculty in 2011) coming from our six (6) departments— 11 professors, 11 associate professors, 59 assistant professors and 47 instructors;

We also hire lecturers who can help in the increasing research and project loads, and to help in carrying teaching loads of other faculty.

We are continuously supporting our faculty members who are BS and MS holders in their pursuit of higher studies. Through various scholarship program offerings in and out of the country and through the Engineering and Research Development Technology (ERDT) faculty development program, our faculty members can avail to study in the school of their choice where they can master their field of expertise.

We also encourage our faculty to apply for the ERDT Faculty Research Dissemination Grant where they can present their research works in international conferences, fora or scientific meetings or publish their research works in journals.

FACULTY PROFILES OF THE DEPARTMENTS ACCORDING TO RANK

Department	Professors	Associate Professors	Assistant Professors	Instructors	Total
Agricultural Engineering	 ABPROD Elauria, Jessie C. Elepaño, Arnold R. Peralta, Engelbert K. Yaptenco, Kevin F. AFSD Dorado, Moises A. AMD Bato, Pepito M. Suministrado, Delfin C. LWRD Ella, Victor B. 	 AFSD Saludes, Ronaldo B. AMD Amongo, Rossana Marie C. (BIOMECH Director) Fajardo, Arthur L. Paras, Fernando Jr O. (IAE Director) LWRD Delos Reyes, Aurelio Jr A. (AMTEC Director) Lampayan, Rubenito M. Luyun, Roger Jr. A. 	 ABPROD Bawar, Rina A. Flores, Fidelina T. Ignacio, Ma. Cristine Concepcion D. (College Secretary) AFSD Ballaran, Vicente Jr G. Castro, Marion Lux Y. Magtoto, Keynty Boy V. AMD Gallegos, Ralph Kristoffer B. Onal, Mark Keylord S. Sanchez, Paolo Rommel P. Quilloy, Erwin P. Zubia, Omar F. LWRD Catubig-Casila, Joan Cecilia M. Delos Reyes, Rosa B. Duka, Maurice A. Sobremisana, Antonio Gabino P. 	 ABPROD Gonzales, Ma. Camille T. AFSD Relativo, Patrick Lemuel P. LWRD Gonzales, Jeffrey A. Sandoval, Joseph Daniel C. 	34
Chemical Engineering	 Demafelis, Rex B. Migo, Veronica P. Movillon, Jovita L* *Adjunct Faculty and retired as of	 Alfafara, Catalino G. Borines, Myra G. 	 Alcantara, Jerico Z. Bambase, Manolito Jr E. Bataller, Butch G. Bautista, Ramer P. Capunitan, Jewel A. Carpio, Rowena De Castro, Leandro T. Del Barrio, Marilyn C. Detras, Monet Concepcion M. Doliente, Stephen S. Santiago, Denise Ester O. Valencia, Jeanne Michelle T. 	 Arocena, Rhebner E. Gatdula, Kristel M. Guerrero, Gino Apollo M. Laurio, Michael Vincent O. Migo, Maria Victoria P. 	23

Right now, we have faculty members who are on study leave (see page 14 and 15) for their Masteral and Doctorate degrees in our country, in the United States, New Zealand, Japan, South Korea and so on. Some who have finished their studies are already back in the university and are now reporting in their respective departments to continue their teaching vocation.

Department	Professors	Associate Professors	Assistant Professors	Instructors	Total
Civil Engineering		 Madlangbayan, Marish S. Sundo, Marloe B. 	 Caburnay, Joseph M. Velasco, Perlie P. Zafra, Richelle G. 	 Aguirre, Jedidiah Joel C. Aragoncillo, Ariel Miguel M. Bertiz, Timothy M. Calibo, Lovely Marie B. Clanor, Mart Dayniel M. De Padua, Victor Mikael N. Lamar, Kimjay M. Morales, Richard Dean F. Reynoso, Crisaulo M. Tabucal, Nimfa Maren S. Uaje, Mark Joel B. 	16
Electrical Engineering			 Agno, Karen-Christian C. Aguirre, Rodolfo Jr A. Catriz, Roderick L. Dulce, Elvin D. Pintor, Annie Liza C. Sumalde, Adrian Augusto M. 	 Gonzales, Gabriela Monica M. Ilang-Ilang, Melvin C. Lavega, Athena P. Mabilangan, Raymond S. Manalo, Aryan Paula A. Manzano, John Paul P. Quicoy, Adrian R. Ramoso, John Paulo A. Repollo, Jenny Rose V. Rosano, Kim Jay R. Torrizo, Lorwin Felimar B. Villasin, Kristel Mae V. 	18
Engineering Science			 Arabit, Jimyl M. Dorado, Adeliza A. Escobar, Erwin C. Eusebio, Ramon Christian P. Garing, Clare L. Glorioso, Ariel U. Libunao, Donna Wren B. Lu, Maria Morissa D. Mulimbayan, Francis M. Tajanlangit, Gianina Martha A. Tarnate, Paul Michael O. Vaso, Christian C. Vasquez, Jasmin Z. Ventura, Jey - R S. 	 Bato, Joanna Joyce D. Bueta, Felix Rey C. Cunanan, Maricris C. Datul, Emir Rey V. Elec, Lady Catherine S. Gonzaga, Ian Lorenzo E. Latag, Glenn V. Opaco, Aidrean P. Ramirez, Eunice G. 	23
Industrial Engineering			 Ani, Angelo C. Baldoz, Mark Anthony M. De Silva, Diana Marie R. Isip, Marc Emmanuel G. Layaoen, Haerold Dean Z. Lee, Kathleen B. Mariano, Lizbeth A. Pesigan, Clarissa M. Revilla, Josefa Angelie D. 	 Caroche, Maria Liezel P. De Silva, Diana Marie R. Landicho, Stephanie Caridad D. Ramirez, Micah A. Yap, Mikel Angelo B. 	14

Faculty Pursuing Higher Studies

Master of Science and Doctorate Degree

As a college that creates innovative programs, we make sure to also invest in the growth and expertise development of our faculty.

Through various faculty scholarship programs and opportunities such as the Engineering

Research and Development Technology (ERDT) scholarship program, AusAid, NZAid and other grants, we are encouraging our faculty members to continue their studies to develop further their expertise in their own field.

NAME	DEPARTMENT/ UNIT	REMARKS
Aguirre, Jedidiah Joel C.	CE Department	Pursuing MS Degree in Mathematical Modelling in Engineering at various universities of L'Aquila Univ., Italy; Humburg Univ., Germany and Autonomous Univ. of Barcelona, Spain.
Alcantara, Jerico Z.	ChE Department	Pursuing PhD in Engineering and Applied Sciences at Western Michigan University, Kalamazoo, Michigan, USA under ERDT Faculty Development Scholarship Grant– Foreign PhD Scholarship; Study leave with pay
Bataller, Butch G.	ChE Department	Pursuing PhD in Biological and Agricultural Engineering at the Texas A & M University under ERDT Faculty Development Scholarship Grant– Foreign PhD Scholarship; study leave with pay
Caburnay, Joseph M.	CE Department	Pursuing PhD degree in Water resources management in Katholieke Universiteit, Leuven, Belgium sponsored by KU Leuven; Study leave with pay
Catriz, Roderick L.	EE Department	Pursued PhD in Electrical Engineering at the University of Southern Queensland, Australia sponsored by ERDT Faculty Development Scholarship Grant–Foreign PhD Scholarship; Study leave with pay
Casila, Joan Cecilia C.	LWRD- IAE	Pursuing PhD in Engineering major in civil and environmental engineering in Tokyo Metropolitan University under ERDT Faculty Development Scholarship Grant– Foreign PhD Scholarship
Castro, Marion Lux Y.	AFSD- IAE	Pursuing PhD in Environmental Engineering in UP Diliman
Escobar. Erwin C.	ES Department	Pursuing PhD in Energy Science and Technology at Myongji University, South Korea; Study leave with pay
Gonzales, Ma. Camille T.	ABPROD- IAE	Pursuing MS in Agricultural Engineering in UP Los Baños; Study leave with pay
Revilla, Josefa Angelie D.	IE Department	Pursuing PhD in Human Science International in Kyushu University, Japan; Study leave with pay
Sandoval, Joseph Daniel C.	LWRD- IAE	Pursuing MS in Civil Engineering in UP Diliman
Santiago, Denise Esther O.	ChE Department	Pursuing PhD in Chemical Engineering in UP Diliman under the ERDT Faculty Development Program– Diliman; Study leave with pay
Sobremisana, Antonio Gabino P.	LWRD- IAE	Pursuing PhD in Civil Engineering in North Carolina State University
Tabucal, Nimfa Maren S.	CE Department	Pursuing MS in Geotechnical Engineering in UP Diliman; Study leave with pay
Torrizo, Lorwin Fe- limar B.	EE Department	Pursuing MS ECE at the De La Salle University; Study leave with pay

Completed Faculty Higher Studies

Master of Science and Doctorate Degree

We are fully supporting them in their endeavor by allowing them to apply for a study leave or to reduce their load to make way for their studies.

We are also open to give them the help they need especially when it comes to their research works. We make sure that they will finish their higher studies and come back to the college with satisfaction.

NAME	DEPARTMENT/ UNIT	REMARKS
Bueta, Felix Rey C.	ES Department	Pursued MS in Material Science and Engineering a UPD sponsored by ERDT.
Datul, Emir Rey V.	ES Department	Pursued MS in Material Science and Engineering at UP Diliman (Data analysis and manuscript writing); Study leave with pay
del Barrio, Marilyn C.	ChE Department	Pursued PhD in Chemical Engineering at UP Diliman under ERDT scholarship.
de Silva, Diana Marie R.	IE Department	Pursued PhD In the University of Padua – PhD in Management Engineering and Real Estate Economics (MEREE).
Gallegos, Ralph Kristoffer B.	AMD- IAE	Pursued PhD (by Research) degree in Mechanical Engineering at the University of Auckland, New Zealand under the New Zealand ASEAN Scholarship
Latag, Glenn V.	ES Department	Pursued MS in Material Science and Engineering at UP Diliman sponsored by ERDT; Study leave with pay
Lavega, Athena P.	EE Department	Pursued MS degree in Electrical Engineering at UP Diliman; Study leave with pay
Lu, Maria Morissa D.	ES Department	Pursued PhD in Engineering Technology at Catholic University of Leuven (KU Leuven), Leuven, Belgium through the Faculty REPS and Administrative Staff Development Program– Foreign Fellowship; Study leave with pay
Mariano, Lizbeth A.	IE Department	Pursued MS in Industrial Engineering at UP Diliman; Study leave with pay
Opaco, Aidrean P.	ES Department	Pursued MS in materials Science and Engineering at UP Diliman sponsored by ERDT.
Quicoy, Adrian R.	EE Department	Pursued MS Electrical Engineering in UP Diliman under ERDT scholarship.
Ramirez, Micah A.	IE Department	Pursued to Master of Information Systems at UP Open University.
Ramoso, John Paulo A.	EE Department	Pursued MS Electrical Engineering in UP Diliman under ERDT Faculty Development Scholarship Grant
Relativo, Patrick Lemuel P.	IAE Department	Pursued MS in Agrometeorology in UP Los Baños; Study leave with pay
Santiago, Denise Esther O.	ChE Department	Pursued MS in Chemical Engineering in Myongji University, South Korea; Study leave with pay
Villasin, Kristel Mae V.	EE Department	Pursued Master of Energy at University of Auckland in New Zealand; Study leave with pay
Zubia, Omar F.	AMD- IAE	Pursued MS in in UP Los Baños

FINANCIAL ASSISTANCE

As the students' second family in the university, we are concerned with everything related to their studies. While we are focusing in keeping track on their academic performances, we are also observing their needs as an individual especially when it comes to registration problems.

We are aware that not all students are capable to pay their tuition fees and other matriculation expenses, which is why, the university and CEAT are making steps to assist them in every possible means.

The UP System created the Socialized Tuition System (STS) where the students can apply online for tuition discount. Partial and full discounts range are given to qualified low-income student applicants.

The university's Office of the Student Affairs is also offering a loan program called Student Loan Board, also known as SLB. It is a program wherein the students can request to avail partial or full waived of payment during the registration period, then pay the loaned amount at the promised date signed by the OSA officers.

We also have the CEAT Alumni Association Student Loan Program which is administered by the CEAT Alumni Association via the CEAT Committee on Scholarship and Financial Assistance who selects the grantees. The fund of the program is coming from the monetary contribution of different personnel such as UP faculty, UP alumni organization with the UP SAGES AA as one of the most active contributors, company, etc.

SCHOLARSHIPS OF CEAT STUDENTS

Scholarship Grant	1 st Sem (2014-2015)	2 nd Sem (2014-2015)	Midyear 2015	1 st Sem (2015-2016)	2 nd Sem (2015-2016)	Midyear 2016	1 st Sem (2016-2017)	2 nd Sem (2016-2017)	Midyear 2017
STS	2354	2286	1278	2417	2308	1375	2138	2035	1075
DOST	195	181	14	217	240	14	202	185	55
TFE	48	40	24	42	35	13	17	14	12
ABONO	1	1	ı	1	-	ı	ı	ı	-
LGC	26	24	10	18	11	3	1	ı	-
EDC	1	-	-	-	-	-	-	-	-
CHED	1	1	1	3	-	1	ı	ı	-
SYDP	6	8	-	11	10	-	10	8	4
OWWA	16	6	-	6	2	-	3	2	-
USPNA	-	-	-	-	1	-	1	1	-
GSIS	-	1	-	1	1	-	1	1	-
REBISCO	-	-	-	1	1	-	1	-	-
RUFUS	ı	1	1	ı	1	1	ı	ı	-
ARDS	1	-	1	1	-	1	1	ı	-
UP PRES	4	4	ı	1	4	1	3	3	-
SMFI	8	4	2	4	5	1	6	5	2
PAFCPIC	ı	-	1	ı	-	1	ı	ı	-
SRA	1	1	-	1	1	1	-	ı	-
IRRI-LBP	1	-	-	1	-	1	1	1	-
DA-ACEF	1	1	1	1	-	1	1	1	1
PHILDEV	1	1	-	1	1	-	2	3	-
UPLBFI	-	1	-	-	-	-	-	-	-
REX	1	1	1	1	-	-	-	-	-
Total	2662	2562	1329	2722	2621	1406	2387	2259	1149



The Engineering Research and Development for Technology (ERDT) program was started way back in April 2007. Spearheaded by the University of the Philippines Diliman (UPD), the ERDT is a consortium of eight universities offering mature engineering graduate programs—University of the Philippines Los Baños (UPLB), Ateneo de Mania University (AdMU), Central Luzon State University (CLSU), University of San Carlos (USC), MSU—Iligan Institute of Technology (MSU-IIT), MAPUA University (Former MAPUA Institute of Technology) and De La Salle University (DLSU).

Funded by the Department of Science and Technology (DOST) through the Science Education Institute (SEI), it aims to address the lack of highly trained researchers, scientists and engineers (RSE's) and Research and Development (R&D) engineering activities in the country through the implementation of its program

components such as the Human Resource Development (HRD), Research and Development (R&D) and Infrastructure Development.

The UPLB— CEAT started being a member of the ERDT program in 2009 in the term of Dean Arsenio Resurrecion with then, IAE Director Dr. Arnold R. Elepano as the project leader.

Under the HRD program component, ERDT offers scholarships to potential and qualified applicants who are interested to pursue engineering graduate programs. The stipend for the scholars are shown below. It also provides a chance to be a Visiting Professor Program and Researcher Program; to pursue graduate studies through its PhD Sandwich Program, Post-Doctoral Studies; and a research fund under the Faculty Research Dissemination Grant.

TYPE OF SCHOLARSHIP	BUDGET
MS Scholarship	Php 25,000 per month
PhD Scholarship	Php 33,000 per month
PhD Sandwich Program	Php 1,200,000 per year
Foreign PhD Scholarship	Php 2,660,000 per year
Faculty Research Dissemination Grant	Php 120,000 in Asia / Php 150,000 outside Asia

In this term 2014— 2017, UPLB-CEAT has a total of 39 MS Scholars and 7 PhD Scholars. We also recorded that 28 MS Scholars and 5 PhD scholars have graduated for this timeline. The

tables below shows the number of scholars from the second semester of 2014 up to the first semester of 2017 and the number of graduates for this term.

ERDT Scholarship Program								
Graduate	2014-2015	2015-	-2016	2016-2017		2017-2018		
Studies	Second Semester	First semester	Second Semester	First semester	Second Semester	First semester	Total	
MS	4	11	3	6	4	11	39	
PhD	0	3	0	1	2	1	7	

	ERDT SCHOLARS' GRADUATES							
Graduate	2014-2015	2015-	-2016	2016	-2017	Total		
Studies	Second Semester	First semester	Second Semester	First semester	Second Semester	Total		
MS	3	-	11	5	9	28		
PhD	2	-	2	1	-	5		

















Source: ERDT website

Engineering Research and Development

ERDT CONGRESS

Agriculture and Science and Technology for Inclusive Growth
4th ERDT Congress



The 4th ERDT Congress held on July 20, 2015 at SMX Convention Center, Pasay City was spearheaded by the two lead agricultural consortium universities— the Central Luzon State University and the University of the Philippines Los Baños respectively.

The Congress with the theme "Agriculture and Science and Technology for Inclusive Growth" focused on how the ERDT team will make an impact regarding food security by combining Science and Technology, agriculture and social economic factors. The topic was meant to solve the need for food security and the continuing growth in population of the country through developing a framework by which the solutions can be made available to all members of the society.

The Congress also discussed the various efforts done to boost Philippine agriculture competitiveness.

Intensifying Academe-Industry Collaboration for Research and Development in the Philippines

5th ERDT Congress



The 5th ERDT Congress was also held at SMX Convention Center last February 17, 2017. The congress discussed possible ways on how the academe and industry can work together to bring research and development to the society. Through collaborations, the two sectors may also help in the evolution of research in the academe to a more needs-based and outcome-based orientation.

Nuclear Energy Forum: Considerations and Essential Information

6th ERDT Congress

The 6th ERDT Congress held at Novotel, Quezon City last August 22, 2017 focused in the discussion on the different aspects needed by evaluators, decision-makers and the public in pursuit of nuclear power as a policy.

This event was a response with the growing capability of the nuclear power as a potential solution to sustain electrical energy requirement of the Philippines. The discussion will also tackle the multiple dimensions of its capacity such as the security, safety and hazards as well as radioactive waste management.











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for Technology (ERDT) Activities

ERDT CONFERENCE

Envision, Enable, and Empower Smarter and Resilient Societies

11th ERDT Conference

The 11th ERDT Conference on Semiconductor Materials and Electronics, Information and Communications Technology and Energy was co-located with the 8th ASEAN University Network-Southeast Asia Engineering Education Development Network (AUN/SEED-Net) Regional Conference on Electrical and Electronics Engineering (RCEEE) last November 16 and 17, 2015 at Acacia Hotel, Filinivest City, Alabang, Metro Manila. The event, hosted by the Electrical and Electronics Engineering Institute of the University of the Philippines Diliman and the DOST- ERDT, were participated by more than a hundred representatives from AUN/SEED-net member institutions, ERDT scholars, and enthusiasts. While the ERDT conference is a regular event



which showcases faculty and scholars' academic and research works, the AUN/SEED— NET served as a platform where they can share the most updated technology and research of regional common issues, as well as to publicize their research works. The joint event was meant to discussed future project collaborations and activities related to engineering field.

Human Resource Development for Sustainable Agricultural Mechanization

12th ERDT Conference



Sustainable Built Design

13th ERDT Conference

The 13th ERDT Conference was co-located with the Sustainable Built Environment 2016 Manila Conference hosted by the UP College of Engineering, UP College of Architecture and UP School of Urban and Regional Planning (SURP) on July 13-15, 2016 at the Acacia Hotel, Filinvest Corporate City, Alabang, Muntinlupa City. The conference aimed to inspire, mobilize and build capacities of professionals and stakeholders towards a more sustainable built environment.

Some of the guest speakers were international experts in fields of engineering, architecture and rural planning while DPWH Sec. Rogelio L. Singson served as the keynote speaker.

Source: UAP-EA Wordpress

The 12th ERDT Conference was co-located with the 11th Annual Technical Committee and Governing Council Meetings of the United Nations Economic and Social Commission – Center for Sustainable Agricultural Mechanization (UNESCAP CSAM), 3rd Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific, and 3rd ASEAN Conference on Agricultural and Biosystems Engineering. Held last December 9-11, 2015 at the Century Park Hotel, Manila, the event discussed the importance of human resource development as a strategic pillar in attaining a sustainable agricultural mechanization in Asia and the Pacific. It also tackled the establishment of possible linkages and exchange of information between the region, as well as the facilitation of cooperative actions and mechanisms between and among different stakeholders in the field of human resource development for agricultural mechanization within the region.

Aligning ERDT Researches to the Sustainable Development Goals

14th ERDT Conference



The 14th ERDT Conference was co-located with the 2017 Association for Engineering Education in Southeast and East Asia and the

Pacific Workshop (AEESEAP) and 27th Executive Committee Meeting and 2017 International Conference on Sustainable Energy Ecosystems (ICSEE) at Waterfront Cebu City Hotel and Casino, Salinas Drive, Lahug, Cebu City on 18-20 October 2017.

The Science and Technology community was challenged to contribute in the attainment of sustainable energy for all and sustainable development in a broader sense.









For more information, visit ERDT website: erdt.coe.upd.edu.ph

IMPROVEMENT OF FACILITIES AND EQUIPMENT



*A project of the EE Department of UP Diliman



CEAT, as an innovative college who wants honor and excellence for its students, is also dedicated to bring and give comfort and safety to our students, faculty and staff.

Although building renovations and new constructions are very costly to the college, we cannot deny the fact that it will contribute great impacts and benefits to the studying aspects of the students, as well as in the working habits of the faculty and staff. So, as a college that is striving to continue bring honor and excellence to the students, to our college and to the university, we are focusing more attention on the impacts of these facilities to our constituents rather than overlook it's financial cost.

We believe that we cannot do the refurbishment and construction of buildings and rooms, and buying of equipment without the help of our friends and project supporters.

We would like to acknowledge the University of the Philippines Los Baños via the Office of the Chancellor with their continuous fund support with our projects. We would also like to thank the Office of the Vice Chancellor Planning and Development for providing computers and laptops for the Office of the College Secretary which helps in students inquiries.



BIOMECH Php 20,000,000.00*(from AFMECH LAW of RA 10601)

















AMTEC

PhP 20.437 million (from the General Appropriations Act Capital Outlay under RA 10601)











Office of the Dean
(from ERDT-DOST—Php100,000.00/year)
and
Office of the
College Secretary
(from OVCPD—Php2.094M)







Department of Industrial Engineering

PhP 4.039 million*
(from UPLB Development Fund)









Institute of
Agricultural Engineering
PhP 1.639 million*
Department of Engineering Science
Php193,307.00*
(from UPLB Development Fund)



IMPROVEMENT OF FACILITIES AND EQUIPMENT





Department of Chemical Engineering

PhP 13.96 million*

Department of Civil Engineering

PhP6,029,580.00*
(UPLB Development Project)







The Department of Chemical Engineering was able to have a new laboratory room and equipment; renovation of rooms also became possible all through the university development program of the Office of the Chancellor.

The Department of Civil Engineering was also funded by the program for the upgrade of their UTM (Universal Testing Machine) and surveying tools as well as the renovation of rooms and comfort rooms in the Engineering Science Department.

The Department of Industrial Engineering building was finished on July 2016. Under the department, the repainting of the EE Building including the Dean's Office become possible.

The EE Department also has an ongoing project collaboration with the UPDiliman EE Department which made it possible to borrow the LEDTV used for Room 302 classes.

The Dean's Office also bought a new Smart LEDTV through the DOST- ERDT program which was used during the monthly Executive Committee Meeting.

AMTEC has also acquired new furniture and equipment for field works through the Capital Outlay of the General Appropriations Act under the Republic Act 10601. The AMTEC conference room was also renovated to function as a venue place for international and local meetings, seminars and conferences.

*Budget from Chancellor Sanchez's Accomplishment Report 2014-2017

IMPROVE RESEARCH'S EXTENSION/ TRAINING VOLUME, INDUSTRY ACADEME LINKAGES, AND REPUTATION

The second thrust of CEAT is aligned to the UPLB vision of being a globally competitive graduate and research university contributing to national development.

We have 60 completed and 43 ongoing research and projects that will make long-lasting impacts to our target beneficiaries, most especially the agricultural sector.

We encouraged our researchers to present their

works in related seminars, conferences, fora and symposiums in and outside the country, in pursuit of being published as a research reference material.

We also connected to the private sector through our academe-linkages programs. We welcome employment partnership and research collaborations to strengthen the reputation and public-private relationship of the college to the industry.

RESEARCH AND PROJECTS

COMPLETED

EXTERNALLY FUNDED							
		2017					
Department	Author(s)	Title of Research/ Project	Funding Agency				
IAE	Kevin F. Yaptenco Ronel S. Pangan	Improve Processing of Sea Cucumber through Mechanization and Packaging	PCAARRD- DOST				
BIOMECH	Victor A. Rodulfo, Jr., Marife R. Santiago, MJB Reyes, A Llarena	Policy on the Manufacturing of the Single Cylinder Engine	PCAF- DA Php 2M				
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, Clarissa Ileana L. Ilao, Gherlee Nelle L. Lalap	UPLB-PCAF Project on Operational procedure and policy for the standardized agricultural mechanization index in the Philippines	PCAF-DA				
		2016					
DChE	Catalino G. Alfafara, Monet Concepcion M. Detras, Michael Vincent O. Laurio	Optimization of Potentiostatic Electrode- position for High Purity Silver Discovery from Scrap Jewelry- Gold Smelting Efflu- ent in Meycauayan, Bulacan, Philippines	UPLB Basic Research Program Php 150,000.00				
DChE	Monet Concepcion M. Detras	Electrolytic Recovery of Low-Grade Nickel from Ni-Rich Soil	UPLB Basic Research Php 150,000.00				
DChE	Rex B. Demafelis, Arnold R. Elepaño, Moises A. Dorado, Jovita L. Movillon, Catalino G. Alfafara, Roderick L. Catriz	Feasibility Study for the Establishment of a Commercial Sweet sorghum Plantation and a Sweet sorghum Processing Plant in the Philippines	NEDA Php19,971,000.00				
DChE	Rex B. Demafelis	Carbon Tax Policy: An effective driver towards climate change mitigation in the Philippines	DA-BAR Php5,000,000.00				
DChE	Rex B. Demafelis Kristel M. Gatdula	Impact of Higher Blended Biodiesel on the Philippine Coconut Industry	United States Agency for International Development (Program Fund- \$5.2M)				
DChE	Rex B. Demafelis, Manolito E. Bambase Jr., Jewel A. Capunitan, Monet Concepcion M. Detras, Lisa Stephanie H. Dizon,	Production of Biogasoline from Biomass- derived Oils, Forest and Agricultural Waste for Agricultural Machinery Fuel Utilization	DA-BAR Php4,900,000.00				
DCE	Perlie P. Velasco	Use of Vetiver Reed Bed System for Wastewater Treatment	UPLB Basic Research Php150, 000.00				
DIE	Haerold Dean Z. Layaoen Mikel Angelo Yap	Faculty Room Extension Project and Building Improvement and Repair	UPLB - OC				

EXTERNALLY FUNDED				
2016				
Department	Author(s)	Title of Research/ Project	Funding Agency	
DIE	Josefa Angelie D. Revilla, Haerold Dean Z. Layaoen, Mikel Angelo B. Yap, Rossana Marie C. Amongo, Jessa Marie Mojica, Angelo C. Ani	Design and Fabrication of an Ergonomic Handle- bar Structure of a Hand Tractor for Vibration Suppression	UPLB OVCRE	
BIOMECH	Alexis C. del Rosario, CP Costales, RJP Estadilla, and GO Opulencia	Comprehensive Assessment of the Performance of the Cassava Supply Chain and Value Chain and Identification of Intervention and Competitiveness	DA-BAR	
BIOMECH	Alexis C. del Rosario, CP Costales, RJP Estadilla, and GO Opulencia	Assessment of the Current Status of the Yellow and White Corn Supply	DA-BAR	
BIOMECH	Rossana Marie C. Amongo, Kevin F. Yaptenco, Ronaldo B. Saludes, and Maria Victoria L. Larona, Rosa B. Delos Reyes, Maurice A. Duka, Jose De Ramos, Ronel S. Pangan, Patrick Lemuel P. Relativo, and Victor A. Rodulfo, Jr.	Enhancing Productivity through the Utilization of Technologies and Knowledge Systems in Corn Based Ecosystem for Food Security	NAFES- CHED	
BIOMECH	Victor A. Rodulfo Jr.	Policy Study in Support to the Local Assembly and Manufacturing of Single Cylinder Agricultural Engine for the Philippine Agri-Fisheries Sector	PCAF-DA	
		2015		
IAE	Aurelio A. delos Reyes, Jr.	Development of Feed Milling Facility for Village Level Fish Farmers	DOST- PCAARRD	
IAE	Engelbert K. Peralta	Production of Nanosilica from Rice Hull and Bench Scale Verification of the Production of Biodegradable Packaging using Cassava Starch- Nanosilica	DOST- PCIEERD	
IAE	Kevin F. Yaptenco and Ronel S. Pangan	Enhancing the Philippine Sea Cucumber Industry through Appropriate Processing Technology	DOST- PCAARRD	
IAE	Ronaldo B. Saludes	SARAI Project 2. Environmental Characterization and Integrated Crop Management	DA- BAR	
IAE	Roger A. Luyun Jr.	SARAI Project 1. Model Development Crop Forecasting	DA- BAR	
IAE	Roger A. Luyun Jr.	Magat River Integrated Irrigation System (MARIIS)/Application and Conveyance Losses in Upper Pampanga River (UPRIIS)	DA- BAR	
IAE	Aurelio A. delos Reyes, Jr.	Mass Production of Freshwater Microalgae and Performance Evaluation for Tilapia and Milkfish	DOST- PCAARRD	
IAE	Kevin F. Yaptenco and Ronel S. Pangan	Improving Productivity of Sea Cucumber Processing through Mechanization	DA- BAR	
IAE	Rossana Marie C. Amongo, IAE Faculty, and BIOMECH Engineers	Enhancing Productivity Through Utilization of Technologies in Crop Based Ecosystem for Food Security	NAFES- CHED	
IAE	Rossana Marie C. Amongo and Mark Keylord S. Onal	Design and Installation of WECS in PSFI Training Center in Pililla, Rizal	BIOMECH	
IAE	Arthur L. Fajardo	Characteristics of the Cage Wheel of Float- assisted Tillers	BIOMECH	
IAE	Roger A. Luyun Jr. and Aurelio A. Delos Reyes Jr.	Development of a Climate Responsive Integrated River Basin Master Plan for Cagayan, Agno, Mindanao and Bauayan-Malungon River Basins	RBCO, DENR	
IAE	Roger A. Luyun Jr. and Arthur L. Fajardo	Policy Study towards Effective Groundwater Management for Sustainable Agriculture	DA-PCAF	

EXTERNALLY FUNDED				
2015				
Department	Author(s)	Title of Research/ Project	Funding Agency	
IAE	Rossana Marie C. Amongo, Victor A. Rodulfo Jr., Maria Victoria L. Larona, Ronel S. Pangan, Alexis C. Del Rosario, Jose De Ramos, Jonathan C. Orozco, Merife R. Santiago, Mario C. Bueno, and Balbino C. Geronimo	Elevation of AMDP into the Center for Agri-Fisheries and Biosystems Mechanization project	DBM Php20M for Equipment outlay Php6M for Infra- structure	
DChE	Rex B. Demafelis, Arnold R. Elepaño, Moises A. Dorado, Rodrigo R. Badayos, Butch G. Bataller, Lisa Stephanie H. Dizon, and El Jire N. Baticados	Environmental, Technical, and Economic Studies of Biodiesel Production from Palm Oil in the Philippines	DA-BAR Php4,900,000.00	
DChE	Jovita L. Movillon, Rex B. Demafelis, Roberto F. Rañola	The Philippines Biofuels Industry: Defining the Strategic Directions	Conservation and Development Specialists Foundation, Inc. (Php2,440,000)	
DIE	Haerold Dean Z. Layaoen Clarissa M. Pesigan	Establishment of a Centralized Warehouse for the Construction, Electrical and Mechanical Supplies Used in Maintenance and Rehabilitation Projects in UPLB, College, Laguna	OVCPD	
DIE	Haerold Dean Z. Layaoen Clarissa M. Pesigan	Establishment of an Incoming Quality Control System for Common-Use Supplies at SPMO, UPLB	OVCA-UPLB	
DIE	Haerold Dean Z. Layaoen Clarissa M. Pesigan	Establishment of a Supplier Database and Performance Evaluation System through Systems Analysis and Design at SPMO, UPLB College, Laguna	OVCA-UPLB	
DIE	Haerold Dean Z. Layaoen Josefa Angelie D. Revilla	Systems Evaluation and Improvement through Process Streamlining and Facility Layout Analysis of the UPLB Accounting and Cashier's Office project	OVCA-UPLB	
AMTEC	Darwin C. Aranguren	Enhancement of Nutrient and Water Use Efficiency through Standardization of Engineering Support Systems for Precision Farming	DOST- PCAARRD (Php 3,199,571.75)	
AMTEC	Delfin C. Suministrado	Development of Standards for Rice Production and Postproduction Machinery	PCAARRD (Php 2.6M)	
		2014		
IAE	Rossana Marie C. Amongo and Mark Keylord S. Onal	Anthropometric of Farmers for Agricultural Machinery Design	BIOMECH Php100,000	
IAE	Pepito M. Bato, A. Blastique	Design and Development of a Machine Vision System (MVS) for Mango Sorting	BIOMECH Php100,000	
IAE	Arthur L. Fajardo	Puddling Characteristics and Performance of the Tilling Wheel of a Float-Assisted Tiller	BIOMECH Php100,000	
IAE	Aurelio A. Delos Reyes Jr.	Backyard-Scale Recirculating Aquaponic System	BIOMECH Php100,000	
DChE	Rex B. Demafelis	Site Specific Evaluation of Sweet Sorghum Organic Production	DA-BAR Php 2,500,000.00	
DIE	Haerold Dean Z. Layaoen, Micah A. Ramirez, Lizbeth A. Mariano	ISO 9001:2008 Quality Management Systems Awareness for UPLB	OVCA	
DIE	Haerold Dean Z. Layaoen and Roderick L. Catriz	Determination of the Best Combination of Commercially Available White and Beige Colored Paints and Floor Tiles Based on IESNA Standards project	OVCRE and Philips Lighting	
DIE	Haerold Dean Z. Layaoen and Roderick L. Catriz	Evaluation of the Different Lighting Alternatives for the World Class Setting of UPLB Classrooms and Offices project	OVCRE and Phil- ips Lighting	

EXTERNALLY FUNDED			
2014			
Department	Author(s)	Title of Research/ Project	Funding Agency
DIE	Haerold Dean Z. Layaoen and Roderick L. Catriz	Development of a Program for the Determination of the Best Lighting Alternative Based on IESNA Standards and Lowest Equivalent Annual Cost project	OVCRE and Philips Lighting

INTERNALLY FUNDED				
2016				
Department	Author(s)	Title of Research/ Project	Funding Agency	
DIE	Haerold Dean Z. Layaoen Shiela Francisco	Project Development and Management Support System for UPLB Projects	DIE	
DIE	Angelo C. Ani Irene Isabella Lijauco	BSIE Program Assessment Through Tracer Study	DIE	
BIOMECH	Jonathan C. Orozco, Mario C. Bueno	Field Test of a Push Type Planter and Fer- tilizer Applicator (with Extension Compo- nent)	BIOMECH	
BIOMECH	Jose D. De Ramos	Modification of the AMDP Corn Planter	BIOMECH	
BIOMECH	Ronel S. Pangan	Design, Fabrication and Testing of a Vermicompost Sieve	BIOMECH	
BIOMECH	Ronel S. Pangan, AL Fajardo, Mark Keylord S. Onal	Design, Fabrication and Testing of a Compost Turner	BIOMECH	
BIOMECH	Marife R. Santiago, AL Pintor	Characterization of selected agricultural crops: evaluation of maturity levels of watermelon	BIOMECH	
BIOMECH	Ronel S. Pangan, Mark Keylord S. Onal	Optimization of the Rice Straw Shredder	BIOMECH	
BIOMECH	Victor A. Rodulfo Jr.	Design and development of a pneumatic dryer for agricultural by-products	BIOMECH	
BIOMECH	Maria Victoria L. Larona, Rossana Marie C. Amongo, Mario C. Bueno, Victor A. Rodulfo Jr., Jonathan C. Orozco	Socio-economic and mechanization profile of the corn production-processing system in Calamba and other AMDP Project Sites (with extension component)	BIOMECH/ Collaboration with Calamba City Municipal Agricultural Office and project site cooperators	
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Victor A. Rodulfo Jr., Ronel S. Pan- gan, Mario C. Bueno, Jose D. De Ramos, Alexis C. del Rosario, MR Santiago, BC Geronimo	Implementing the role of the Center for Agri-Fisheries and Biosystems Mechanization (BIOMECH) / Agricultural Mechanization Development Program (AMDP) in the Agricultural and Fisheries Mechanization Law of 2013 (R.A. 101601): Project/Program Development for the National Agricultural and Fisheries Mechanization Program (NAFMechP) of the AFMech Law	BIOMECH in collaboration with concerned DA agencies-PHilMech, PCAF, BAFE, DOST-PCAARRD, etc.	
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Victor A. Rodulfo Jr., Ronel S. Pan- gan, Mario C. Bueno, Jose D. De Ramos, Alexis C. del Rosario, MR Santiago, BC Geronimo, Jonathan C. Orozco	Strengthening and elevation of the Agricultural Mechanization Program into the Center for Agri-Fisheries and Biosystems Mechanization (BIOMECH)	BIOMECH/UPLB, UP System Office	
BIOMECH	Rossana Marie C. Amongo, Victor A. Rodulfo Jr., Jose D. De Ramos	Program Development for the implementation of the Sugarcane Development Industry Act (SIDA) and membership to SIDA Farm Mechanizaton Committee	BIOMECH and Sugarcane Regula- tory Administration	

	EXTE	RNALLY FUNDED	
Department	Author(s)	Title of Research/ Project	Funding Agency
IAE	Rossana Marie C. Amongo, Arthur L. Fajardo, R L. Catriz, Ralph Kristoffer B. Gallegos	Design,Testing & Installation of a Micro- Hydro System	BIOMECH Php100,000.00 Jan 2015- Dec 2017
IAE	Fernando O. Paras, Jr., Ralph Kristoffer B. Gallegos	Automation and Design Improvements for SINAG (Solar Incubator for Agriculture) System	BIOMECH Php100,000.00 Jan 2015- Dec 2017
IAE	Mark Keylord S. Onal	Design & Installation of WECS at PSFI Training Center, Pililia, Rizal	BIOMECH/PSFI Php100,000.00 Jan 2015- Dec 2017
IAE	Kevin F. Yaptenco, Fernando O. Paras, Jr.	Mechanization of Heat Treatment of 'Carabao' Mango for Quarantine Disinfes- tation and Disease Control	BIOMECH Php100,000.00 Jan 2015- Dec 2017
IAE	Ronaldo B. Saludes, Vicente G. Ballaran, Jr., K.B. Magtoto	Hydroponic Green Forage Production for Crossbred Dairy Buffaloes	BIOMECH Php100,000.00 Jan 2015- Dec 2017
IAE	Roger A. Luyun, Jr., Arthur L. Fa- jardo	Evaluation and Pilot-testing of Shallow Tubewells (STWs) as Recharge Wells	BIOMECH Php100,000.00 Jan 2015-Dec 2017
IAE	EF Delfin, Kevin F. Yaptenco, E Quilloy	Project 5. Assessment of Sugarcane Varieties and Germplasm Collection for Drought and Waterlogging Tolerance; Component 1: Screening of Sugarcane for Drought Tolerance	Sugar Regulatory Administration
IAE	Moises A. Dorado and Vicente G. Ballaran, Jr.	Smarter Approaches to Reinvigorate Agri- culture as an Industry in the Philippines (Project 2: Vulnerability Study)	DOST- PCAARRD
IAE	Ronaldo B. Saludes and Roger A. Luyun, Jr.	Smarter Approaches to Reinvigorate Agri- culture as an Industry in the Philippines (Project 1: Water Management Study)	DOST- PCAARRD
IAE	Monaliza F. De Los Reyes, Maurice A. Duka, and Jeffrey A. Gonzales	Analysis of Irrigation Structures Sensitivity and Perturbations in Support for the Development of Improved Operation and Management (O & M) of UPRIIS	OVPAA- ECWRG
IAE	Moises A. Dorado and Vicente G. Ballaran, Jr.	Monitoring and Detection of Ecosystems Changes for Enhancing Resilience and Adaptation in the Philippines	DOST- PCAARRD
IAE	Ronaldo B. Saludes	Phil LIDAR 2: Nationwide Detailed Resources Assessment using LIDAR	DOST- PCIEERD
IAE	Victor B. Ella, Arthur L. Fajardo, Maurice A. Duka, Jeffrey A. Gonza- les, Mary Anne T. Labrador, Roy I. Mariñas, Nikki Allaine Panaligan, Mark Ferdie Eusebio, Kristelle Marie De La Cruz, Ruth J. Delos Reyes	Development of Wireless Sensor network- based Water Information System for Effi- cient Water Management in the Philip- pines	CHED- PCARI
DChE	Rex B. Demafelis, Myra G. Borines, Manolito E. Bambase Jr., Jewel A. Capunitan, Jovita L. Movillon, Lisa Stephanie H. Dizon, Amabelle A. Pector	Biojet Production from Coconut Oil	DOST- PCIERRD Php4,573,728
DChE	Myra G. Borines, Maria Victoria P. Migo	Parametric and Optimization Studies on the Solvent Extraction of Petroleum Nut (Pittosporum resinferum) Oil	UPLB Basic Research Php150,000 Jan-Dec 2017
DChE	Rex B. Demafelis	Adaptability Trial of Super Sweet sorghum	DA-BAR Php5,000,000 Apr 2015- Dec 2017

EXTERNALLY FUNDED				
Department	Author(s)	Title of Research/ Project	Funding Agency	
DChE	Rex B. Demafelis, Lisa Stephanie H. Dizon, Kristel M. Gatdula, Amabelle A. Pector	Saccharine Feedstock for the Production of High Value Products	DA-BAR Php5,000,000 May 2015- Nov 2017	
DChE	Rex B. Demafelis, Lisa Stephanie H. Dizon, Kristel M. Gatdula, Amabelle A. Pector	Life Cycle Assessment of Swine Production Towards a Sustainable Swine Industry in the Philippines	DA-BAR Php5,900,000 Aug 2017- Aug 2019	
DChE	Myra G. Borines, Lisa Stepha- nie H. Dizon, Jeanne Michelle T. Valencia, Rex B. Demafelis	Increasing Farmers' Income through the Utilization of Waste Onion Leaves for Various Applications	DA-BAR Php3,000,000.00 July 2017- July 2018	
DChE	Veronica P. Migo	Validation and Verification of Methods for Mineral Constituents and Heavy Metal Con- taminants in Organic Fertilizers	DA-BAR Php2,376,242.30 Apr 2017- Mar 2019	
DChE	Rex B. Demafelis, Lisa Stephanie H. Dizon, Kristel M. Gatdula, Amabelle A. Pector	Production of Quality Grade Ethanol from Sweet Sorghum	DA-BAR Php4,869,846 Dec 2014- Dec 2017	
DChE	Manolito E. Bambase Jr., Lisa Stephanie H. Dizon	Biodiesel Production in a Packed-Column using OH-impregnated Calcium Oxide as a Heterogeneous Catalyst by a Co-solvent Method	UP ECWRG Php450,000.00 Feb 2017- Aug 2018	
DChE	Rex B. Demafelis, Lisa Stephanie H. Dizon, Kristel M. Gatdula, Amabelle A. Pector	Boosting Farmers' Income through an Integrated Soybean Production for Food and Fuel: An Environmental Assessment, Technical and Economic Studies	DA-BAR Php4,985,136 Oct 2016- Mar 2018	
DChE	Rex B. Demafelis, Myra G. Borines, Manolito E. Bam- base Jr., Jewel A. Capunitan, Jovita L. Movillon, Lisa Stephanie H. Dizon, Amabelle A. Pector	Bio-oil production from Agricultural Waste (formerly Biojet Fuel Production from Coconut Oil)	DOST-PCIEERD Php2,326,272 July 2016- Jan 2018	
DES	Francis M. Mulimbayan	Investigation of the effects of chloride contamination on the pitting resistance of low-cost austenitic stainless steels in citric acid using electrochemical methods	OVCRE-UPLB PhP150,000 Jan 2016- Dec 2017	
DES	Jey-R S. Ventura and Gino Apollo M. Guerrero	Bio-adhesive production using protein from lipid extracted microalgal biomass	ECWRG-OVPAA PhP300,000 Jan 2017- Dec 2018	
DES	Jey-R S. Ventura	Development of surface-modified nanocrystalline cellulose for metal ions removal in wastewater	ECWRG-OVPAA PhP500,000 Oct 2017- Apr 2018	
DES	Jey-R S. Ventura, Fidel Rey P. Nayve, Jr.,and Catalino G. Alfafara	Polyhydroxy-alkanoate (PHA) production from agricultural residues	DOST-PCIEERD PhP3,839,256 May 2017- April 2018	
DES	Lizbeth A. Mariano & Haerold Dean Z. Layoen	Ergonomic Assessment and Establishment of Recommended Standard Conditions for UPLB Offices	OVCRE Basic Research (P300,000.00) Feb 2017- Jan 2019	
AMTEC	Darwin C. Aranguren	Testing and Evaluation of Machinery Generated from PCAARRD Funded Projects	PCAARRD (Php 3,305,897) Jun 2017- present	
BIOMECH	Aexis C. del Rosario, Jose D. De Ramos, and Marife R. Santiago	Development and of a Comprehensive Mechanization Resource Mapping, Monitor- ing and Data Analysis System (MRMMDAS)	DOST- PCAARRD	
BIOMECH	Ronel S. Pangan APK Roxas, E Repoldo	Development of Drying Systems for Seaweeds	PCAF	
BIOMECH	Rossana Marie C. Amongo and Maria Victoria L. Larona	Policy Formulation of the Standard Procedure for Fishery Mechanization Index (FishMI) integrating the Best Practices on the Utilization of Fisheries Mechanization Technologies (FMTs)	DA-BAR	
BIOMECH	Rossana Marie C. Amongo, Roger A. Luyun Jr., and Ronaldo B. Saludes	Identifying Suitable Sites for Small Scale Irrigation Projects (SSIPs) in the CALABAR-ZON Region (Region IV A) Through GISbased Water Resources Assessment	DA-BAR	

INTERNALLY FUNDED (JAN 2015- DEC 2017)			
Department	Author(s)	Title of Research/ Project	Funding Agency
BIOMECH	Jonathan C. Orozco	Modification of the Hopper of a Push Type Fertilizer Applicator	BIOMECH
BIOMECH	Jonathan C. Orozco	Fabrication of a Blower for a Pneumatic Planter	BIOMECH
BIOMECH	Alexis C. del Rosario	Design and Development of Corn Sheller for High Moisture Corn	BIOMECH
BIOMECH	Victor A. Rodulfo Jr.	Design and modification of mini corn mill	BIOMECH
BIOMECH	Rossana Marie C. Amongo, Jose D. De Ramos, Marife R. Santiago	Development of machinery in support of the organic agriculture program of the municipality of Dumingag, Zamboanga del Sur	BIOMECH
BIOMECH	Rossana Marie C. Amongo, Jose D. De Ramos, Marife R. Santiago	Testing and Evaluation of Technology Package for Processing of Vegetables into Powder	BIOMECH
BIOMECH	Alexis C. del Rosario	Design and Development of Mechanical Peanut Sheller	BIOMECH
BIOMECH	Rossana Marie C. Amongo, Jose D. De Ramos, Victor A. Rodulfo, Jr., Ronel S. Pangan, Maria Victoria L. Larona, Marife R. Santiago, and IAE faculty	Pilot area development on the utilization and diffusion of corn mechanization technologies	BIOMECH
BIOMECH	Jose D. De Ramos, Alexis C. del Rosario, and Marife R. Santiago	Technical assistance for the industrial extension of corn mechanization technologies in Cebu and Region VII	BIOMECH

PAPERS PRESENTED IN LOCAL CONFERENCES, SEMINARS, FORA

2017				
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS	
IAE	Rossana Marie C. Amongo	Agricultural Mechanization Index in the Philippines	Knowledge Sharing and Learning (KSL) on Agricul- ture and Fisheries Mechani- zation. EE Auditorium, CEAT, UP Los Baños	
IAE	Rossana Marie C. Amongo	Philippine Qualifications Framework (PQF) PILOTING: Agricultural and Biosystems Engineering	National Public Hearing/ Consultation, Policies, Standards and Guidelines for the Degree of BS Agricultural and Biosystems Engineering (BSABE). Bay View Park Hotel Manila	
IAE	Rossana Marie C. Amongo, Kevin F. Yaptenco, R. B. Sa- ludes, Maria Victoria L. Larona, Fernando O. Paras, Jr., Rosa B. delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ro- nel S. Pangan, Victor A. Ro- dulfo, Jr., M.D.G. Estrada, and Ronnie C. Valencia	Enhancing Productivity through the Utilization of Innovative Corn Mechanization Technologies for Food Security	NAFES-CHED National Symposium. Widus Hotel, Clark Pampanga;	
BIOMECH	Rossana Marie C. Amongo & Maria Victoria L. Larona	The Operational Framework for the Implementation of the Agri- cultural and Fisheries RDE Net- work for HEIs	National Consultation Workshop on the Agricultural and Bioystems Engineering and the Implementation of Agricultural and Fisheries Mechanization Law (R.A. 10601) for Higher Education Institutions (HEIs). EE Audi., EE Bldg,CEAT, UPLB	
2016				
IAE	Rossana Marie C. Amongo, Roberto C. Guarte,Romeo B. Gavino, Caesar Joventino M. Tado, and Arsenio N. Resurrec- cion	The BSABE 4-year curriculum in response to K-12 and OBE	PATE-ICEE 2016. Henry Sy Hall, De La Salle University Taft Ave., Pasay City	

2016				
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS	
DChE	Myra G. Borines, Mary Louise P. Pascual, Arnold R. Elepaño	Enhancing Global Engineer- ing Education and Re- search: UPLB – CEAT Ex- perience	International Conference on Engineering Education – Philippines (ICEE-Phil 2016) at the De La Salle University, Taft Ave., City of Manila	
DChE	Rex B. Demafelis	Biomass to Biofuels : A Resource and Market Assessment	Mini Conference of Biomass Conversion to Liquid Biofuels. UP Diliman, Quezon City	
DChE	Myra G. Borines	Pretreatment and Enzymatic Conversion of Biomass to Ethanol	Mini Conference of Biomass Conversion to Liquid Biofuels. UP Diliman, Quezon City	
DChE	Bernadette D. Tongko, Rex B. Demafelis, Anna Elaine D. Matanguihan, Amabelle A. Pector	Comparative Analysis of Sugarcane and Molasses Bioethanol Carbon Footprints, Carbon Savings and Carbon Debt Payback Periods	77 th Philippine Institute of Chemical Engineers (PIChE) National Convention, Boracay, Aklan, Philippines	
DChE	Kristel M. Gatdula, Rex B. Demafelis, Czaniel C. Gomez and Anna Elaine D. Matan- guihan	Optimizing the Ethanol Fermentation from Cellulose and Mannitol of Macroalgae Sargassum spp. using Saccharomyces cerevisiae 2055	77 th Philippine Institute of Chemical Engineers (PIChE) National Convention, Boracay, Aklan, Philippines	
BIOMECH	Rossana Marie C. Amongo & Maria Victoria L. Larona	The Role of HEIs in Human Resource Development for Agricultural Development	PAESTIGAN 2016 held at EE Auditorium, CEAT, UP Los Banos	
		2015		
IAE	Rossana Marie C. Amongo	HEIs AFMechRDEN Agenda for the AFMech Law (R.A. 10601)	National Seminar-Workshop on Aquaculture Engineering and Aquaculture-Fisheries Research Development and Extension (RDE) Agenda (AFMech Law of R.A. 101601 of 2013) at the Elec- trical Engineering Building, CEAT, UPLB	
IAE	Rossana Marie C. Amongo	Environmental Adaptation Technologies and Systems for Food	ERDT Round Table Discussion Environment and Infrastructure Track at UP Diliman Quezon City	
IAE	Rossana Marie C. Amongo	Philippine HEIs towards Glob- alization through International Accreditation OBE: The Case of IAE	PAESTIGAN V: The SCU National Quiz Contest and Symposium	
IAE	Rossana Marie C. Amongo	Outcome-Based Education: The Case of IAE	OBE orientation of the Department of Agricultural Economics, CEM UPLB	
IAE	Rossana Marie C. Amongo, Ma. Cristine Concepcion D. Ignacio, Mark Keylord S. Onal, Jeffrey A. Gonzales, Patrick Lemuel P. Relativo, Maria Victoria L. Larona and Angeli Grace M. Castalone	ASEAN University Network Quality Assurance [AUN-QA] Quality Assessment at the Program Level - Bachelor of Science in Agricultural and Biosystems Engineering Self- Assessment Report	ASEAN University Network [AUN-QA] Quality Assessment [QA] External Review. EE Auditorium, CEAT, UPLB	
DChE	Myra G. Borines, Kristel M. Gatdula and Rex B. Demafe- lis	UPLB-Chemical Engineering Department's Researches on Third Generation Bioethanol Production (Macroalgae)	USAID STRIDE & UPLB IBRSC Innovation Workshop on the Next Research Ideas for Bioethanol. BIOTECH, University of the Philippines Los Baños, Los Baños, Laguna	
DChE	Rex B. Demafelis	Potential of Biomass Resources for Fuels and Power Production in Mindanao	National symposium on Biotech- nology, Biodiversity and Biore- sources for Sustainable Develop- ment. MSU-General Santos City	

	2	015		
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS	
DChE	Rex B. Demafelis, Teodoro C. Mendoza, Anna Elaine D. Matanguihan, Richard V. Magadia, Jr. Justine Allen S. Malabuyoc, Amabelle A. Pector, Klarenz A. Hourani, Lavinia Marie A. Manaig, Kristel M. Gatdula, Jovita L. Movillon	Carbon Footprint of Raw Sugar Produc- tion: Is Raw Sugar Carbon Positive of Negative	62 nd Philsutech Convention, Cebu City	
DChE	Myra G. Borines	The Biorefinery Concept: Its emergence and application to marine macroalgae	PIChE Laguna Chapter Southern Luzon Symposium: Reenergizing Chemical Engineering. Malayan Colleges Laguna, Cabuyao City	
DEE	Elvin D. Dulce	Reliability Evaluation of Two Interconnected Power Systems	11th ERDT Conference; Acacia Hotel, Alabang, Muntinlupa	
BIOMECH	Maria Victoria L. Larona	Cost and Return analysis for Corn Pro- duction- Post Produc- tion System in Se- lected Regions of the Philippines	UP REPSS 2 nd Scientific Conference and 6 th General Assembly; Tagaytay International Convention Center, Tagaytay City	
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Victor A. Rodulfo, Jr.	Land Consolidation (Contiguous Farm- ing):The Philippine Setting	TWG Workshop for the Preparation of the Formulation of National Agricultural and Fishery Mechanization Program (RAFMP), PCAF, DA	
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Victor A. Rodulfo, Jr., Jose D. de Ramos, Ronel, S. Pangan, Alexis C. Del Rosario, Marife S. Santiago, Jonathan C. Orozco, Mario C. Bueno and Balbino C. Geronimo	Agricultural and Fisheries RDE Agenda of Higher Education Institutions in the Philippines		
	2014			
IAE	Rossana Marie C. Amongo	AFMECH Law of 2013	A Round Table Discussion on Food Security: Marketing and Postharvest sponsored by UPLB Interdisciplinary Studies Center on Food Security and DA NAFC; Apacible Hall PCAF, DA	

PAPERS PRESENTED IN INTERNATIONAL CONFERENCES

	2017			
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS	
DEE	Adrian Augusto M. Su- malde	Design, Fabrication and Testing of a BPW21-R Silicon Photodiode- Based Pyranometer	2017 International Conference on Engineering and Natural Sci- ence, Sapporo Convention Cen- ter, Sapporo, Hokkaido, Japan	
DIE	Lizbeth A. Mariano & Aura C. Matias	Prevalence and Risk Factors of Respiratory Problems among Solid Waste Collectors in the Phil- ippines	8th International Conference on Applied Human Factors and Ergonomics (AHFE2017); The Westin Bonaventure Hotel, Los Angeles, California	
AMTEC	Fatima Joy J. Raytana, Conrad Ian S. Tan, Jasper C. Aliangan, Romulo E. Eusebio, Darwin C. Aran- guren, Aurelio A. Delos Reyes, Jr.	Analysis of AMTEC Test Data an Grain Moisture Meter for Palay (Oryza sativa)	67th PSAE Annual National Convention	

2017			
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona and Ronnie C. Valencia	The Agricultural Situation Focusing on Pesticides and Plant Protection Equipment and the Introduction of Agricultural Mechanization Development in the Philippines	Regional Training on Effective Utilization of Pesticides and Plant Protection Equipment in Asian Countries in Nanjing, China
145		2016	0 100 111 1 11 5
IAE	Mona Lisa F. Delos Reyes	Diagnostic Assessment Approach for Formulating a Climate- proac- tive Modernization Strategy for Small-scale National Irrigation Sys- tems in the Philippines	Second World Irrigation Forum and 67th International Executive Council Meeting: International Commission on Irrigation and Drainage; Chiang Mai, Thailand
IAE	Rossana Marie C. Amongo	Business Management for Custom Hiring Services of Agricultural Mechanization Technolo- gies: <i>Theories and Concepts</i>	Knowledge-Sharing Work- shop on Business Manage- ment of Custom Hiring of Agricultural Machinery in the Dry Zone of Myanmar: Man- dalay Myanmar
DEE	John Paolo A. Ramoso	Comparative Study of Different Fuzzy-Neutral Configurations for Autonomous Vehice Following Al- gorithm	6 th IEEE International Conference on Control Systems, Computing and Engineering (ICCSCE 2016); Penang, Malaysia
DEE	Adrian Augusto M. Su- malde	Design and Implementation of a Fuzzy Logic Controller for the Temperature and Relative Humidity in a Chicken Egg Incubator	2016 ISSAAS International Conference; Vietnam Na- tional University of Agricul- ture, Hanoi, Vietnam
DEE	Athena P. Lavega	Overview of methods for voltage sag performance estimation	2016 17th International Conference on Harmonics and Quality of Power (ICHQP); Belo Horizonte, Brazil
DEE	Rodolfo A. Aguirre Jr.	Improved Power Flow Program for Unbalanced Radial Distribution Systems Including Voltage Dependent Loads	2016 IEEE 6th International Conference on Power Sys- tems; New Delhi, India
DIE	Marc Immanuel G. Isip	Development of a Multi– Perspective Assessment Tool in Evaluating the Service Quality of Philippine Public HEIs	17th APIEMS Conferenc Howard Hotel, Taipei, Tai- wan
AMTEC	Aurelio A. Delos Reyes	Status of the Development of the Philippine Agricultural Engineering Standards (PAES)	66th PSAE Annual National Convention
AMTEC	Romulo E. Eusebio, Conrad Ian S. Tan, Jasper Ceasar S. Ogana,, Jasper C. Aliangan, Darwin C. Aranguren, Aurelio A. Delos Reyes, Jr.	Features, Specifications and Per- formance of Four-Wheel Tractors Being Sold in the Philippines	66th PSAE Annual National Convention
AMTEC	KG Obcena, PKJA Reyes, AL De Guzman, Marc Im- manuel G. Isip, Aurelio A. Delos Reyes, Jr.	Location Planning Analysis in Identifying Strategic Sites for AMTEC Satellite Centers in Visayas and Mindanao	66th PSAE Annual National Convention
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, Lynlyn O. Oguis, Pechie B. Melendez Clarissa Ileana I. Ilao and Ghelee Nelle L. Lalap	Operational Policy for the Development of Philippine Agricultural Mechanization Index	Benchmarking Activity for the Operational Philippine Mechanization Index: Viet- nam and Thailand
BIOMECH	Ronel S. Pangan	Enhancing the Philippine Sea Cu- cumber Industry through the De- velopment of an Appropriate Proc- essing Technology	Aquaculture 2016 Conference; Las Vegas, Nevada, USA

		2015	
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
IAE	Jerome Suarez, Vicente G. Ballaran, Jr., Moises Do- rado, Ronaldo Saludes	Correlation between Evapotran- spiration Derived from Remotely Sensed Image and Evapotran- spiration Measure from the field	65 th PSAE Annual National Convention; KCC Convention and Events Center, General Santos City
IAE	Arthur L. Fajardo, Delfin C. Suministrado, Engelbert K. Peralta, Pepito M. Bato, Eduardo P. Paningbatan	Effect of Blade Shape and Shaft Speed on the Performance of a Tilling Wheel of Float-Assisted Tillers	20 th International Soil Tillage Research Organization Conference; Nanjing, PR China
IAE	Fernando O. Paras Jr., Rectorino P. Escobin Jr., Rossana Marie C. Amongo, Raplh Kristoffer B. Gallegos, Omar F. Zubia, Lizbeth A. Mariano, Jomiline Bernadeth C. Almano	Optimization of Soybean Roast- ing for Animal Feeds Using the UPLB Bean Roaster	12th International Agricultural Engineering Conference and Exhibition MSU, General Santos City
IAE	Rossana Marie C. Amongo	Enabling Environment for Custom Hiring of Agricultural Machinery in the Dry Zone of Myanmar	Knowledge-Sharing Workshop of the Integrated Rural Economic and Development Programme for the Dryzone of Myanmar: Mandalay Myanmar
DCE	Marloe B. Sundo	Development of Fuel Consumption Modeling in Estimating Energy Demand and CO2 Emissions for Inter-Regional Road Transport Using Road Segments and O-D Data	1 st International Conference on Science, Engineering and Envi- ronment (SEE); Japan
DCE	Richelle G. Zafra	Effect of Polypropelene Fiber Reinforced Cement Comnposites on the Seismic Performance of Bridge Columns based obn Full- Scale and Scaled Model Experi- ments	International Conference on Civil Engineering (NICCE) 2015; Narotama University, Indonesia
DCE	Richelle G. Zafra	Microtremor H/V Analysis as a Basic Tool In Community Land Use and Safety Planning — UPLB Campus Case Study	6th Asia Conference on Earth- quake Engineering; Marco Polo Hotel, Cebu City
DEE	Rodolfo A. Aguirre Jr.	Comparative Analysis of Different Modeling Approaches in the Optimal Allocation of Embedded Generator	8th AUN/SEED-Net Regional Conference on Electrical and Electronics Engineering; Manila, Philippines
DEE	Adrian Augusto M. Su- malde	Empirical Evaluation of Crystal- line Silicon and Amorphous Sili- con Thin-Film PV Power and Effi- ciency using I-V Characteristics	2015 ISSAAS International Conference; Tokyo University, Tokyo, Jaoan
DEE	Athena P. Lavega	Overview of voltage sag profile estimation	TENCON 2015, 2015 IEEE Region 10 Conference; Macau, China
DES	Francis M. Mulimbayan	Investigation of the effects of so- lution temperature on the corro- sion behavior of austenitic low- nickel stainless steels in citric acid using impedance and polari- zation measurements	4 th International Conference on Engineering and Innovation Ma- terials, Penang, Malaysia
DIE	Clarissa M. Pesigan, Fortunato dela Pena, Ronalyn Luansing, Rhea Mae Maesa, Melanie Taguinod, Paul John Julongbayan	Regional Science High School Campus Location Selection Us- ing Analytic Hierarchy Process	16th APIEMS Conference Caravelle Hotel, Ho Chi Minh City, Vietnam
DIE	Eduardo Rustico, Clarissa M. Pesigan, Ronalyn B. Luansing	An E-trike ICE Project- Innovative, Concrete and Ergonomic: Systems Design to Support Sustainable E-trike Commercialization	6th International Conference on Applied Human Factors and Er- gonomics (AHFE 2015) and the Affiliated Conferences Las Ve- gas, Nevada, USA

		2015			
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS		
DIE	Josefa Angelie Revilla	Investigating the Effect on the Learning Curve of Per- forming Similar Work During the Break Between Work Stints	6th International Conference on Applied Human Factors and Ergo- nomics (AHFE 2015) and the Affili- ated Conferences Las Vegas, Ne- vada, USA		
AMTEC	Darwin C. Aranguren, Romulo E. Eusebio, Ampy Paulo K. Roxas and Delfin C. Suministrado,	Performance status of me- chanical rice threshers tested by AMTEC	65th PSAE Annual National Convention		
AMTEC	Jasper Ceasar S. Ogana, Conrad Ian S. Tan, Romulo E. Eusebio, Darwin C. Aranguren, Delfin C. Su- ministrado and Aurelio A. Delos Reyes, Jr.	A practical approach on the optimization of pump performance	65th PSAE Annual National Convention		
		2014			
IAE	Ma. Cristine Concepcion D. Ignacio	Investigation of Potential Applications of Nanosilica Derived from Rice Hull Ash	4th Thailand International Nanotechnology Conference Thailand Science Park Convention Center, Pathumthani, Thailand		
IAE	Rossana Marie C. Amongo and Maria Victoria L. Larona	Establishing the Agricultural and Fisheries Agricultural Engineering Resource Network in the Philippines	10th CSAM TC and Regional Forum on the establishment of Regional Database on Agricultural Mechanization in Asia and the Pacific Siem Reap, Cambodia		
IAE	Rossana Marie C. Amongo, Maria Victoria L. Larona, Roberto C. Guarte, Romeo B. Gavino and Nanette Re- villa	Agricultural and Biosystems Engineering Research Development and Extension of Higher Education Institutions in the Philippines	ASEAN Universities Consortium on Food and Agro-based Engineering &Technology Conference & 1st International AUCFA Student Semi- nar; IPM, Bogor, Indonesia		
DES	Julius Rhoan T. Lustro	Homoclinic orbits and the onset of transient turbulence in wall flow	10 th Asian Computational Fluid Dynamics (ACFD10) Conference; Jeju, South Korea		
DES	Marvin L. Samaniego	Characterization of TiO ₂ Nanotube Arrays Fabricated via Two-Step Anodization	International Conference on Materials Science and Technology; Bangkok, Thailand		
DES	Francis M. Mulimbayan	Corrosion Behavior of AISI 202 Stainless Steels in Citric Acid	Material Science and Engineering Congress; Darmstadt, Germany		

PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

	2017			
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS	
IAE	MM Duldulao, Victor A. Rodulfo, Jr., Delfin C. Suministrado, Rossana Marie C. Amongo and EP Lozada	Design and Development of Basic Mechanization for Motorized De- husker Machine	14th International Conference and 67th PSAE Annual National Convention	
IAE	Ronel S. Pangan, Balbino C. Geronimo, Rossana Marie C. Amongo, Mark Keylord S. Onal, Arthur L. Fajardo and Maria Pamela S. Castro	Development and Utilization of Suitable Agricultural Mechanization Technologies (AMTs) for Bio- Organic Fertilizer Production at the Pilipinas Shell Foundation, Inc. (PSFI)	14th International Conference and 67th PSAE Annual National Convention	
IAE	Onal, Mark Keylord S., King Roy DR. Bondad, Ninoy Man- dela Kalima P. Serrano, Ros- sana Marie C. Amongo and Fernando O. Paras Jr	Comparative Analysis of a Small- scale Horizontal Axis Wind Turbine (HAWT)	14th International Conference and 67th PSAE Annual National Convention	

		2017	
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
IAE	Marife R. Santiago, Jose D. de Ramos, AC del Rosario, Rossana Marie C. Amongo, Maria Victoria L. Larona, Arnold R. Elepano	Enhancing Farmers Productivity through the Introduction of Appropriate Agricultural Mechanization Technology in Siquijor Province	14th International Conference and 67th PSAE Annual National Convention
IAE	Kevin Ardie S. Valin, Arthur L. Fa- jardo, Rossana Marie C. Amongo, Fernando O. Paras, Jr. and Delfin C. Suministrado	Installation and Testing af a500W Microhydro System in Piit River, Pangil, Laguna, Philippines	14th International Conference and 67th PSAE Annual National Convention
IAE	Rossana Marie C. Amongo	Development Efforts on Appropriate and Climate Resilient AFMTs for Philippine Agriculture to attain Food Security	14th International Conference and 67th PSAE Annual National Convention
IAE	Rossana Marie C. Amongo and Ariodear C. Rico	Establishing a Cooperation Mechanism for Human Resource Development on Sustainable Agricultural Mechanization: The Philippine Experience	Regional Workshop for Research and Academic Institution on Sustainable Agricultural Mechaniza- tion
DCE	I. Rusydy, DVF Eslava, U. Muksin, Richelle G. Zafra, Jedidiah Joel C. Aguirre, NC Bantayan, L. Alam, & S. Dakey	Building vulnerability and hu- man loss assessment in differ- ent earthquake intensity and time: a case study of the Univer- sity of the Philippines, Los Baños (UPLB) Campus	IOP Publishing Ltd.
AMTEC	Conrad Ian S. Tan, Jasper C. Aliangan, Fatima Joy J. Raytana, Romulo E. Eusebio, Darwin C. Aranguren and Aurelio A. Delos Reyes Jr.	Analysis of Specifications and AMTEC Test Data On Power Tillers	Philippine Society of Agricultural Engineers
AMTEC	Fatima Joy J. Raytana, Conrad Ian S. Tan, Jasper C. Aliangan, Romulo E. Eusebio, Darwin C. Aranguren and Aurelio A. Delos Reyes Jr.	Analysis of AMTEC Test Data on Grain Moisture Meter for Palay (Oryza sativa)	Philippine Society of Agricultural Engineers
AMTEC	R.F. Escala & Aurelio A. Delos Reyes Jr	Performance Evaluation of Flu- idized Sand Filter with Different Grades of River Sand	Philippine Society of Agricultural Engineers
BIOMECH	Rossana Marie C. Amongo	Meeting Challenges of Engi- neering and Technological Breakthroughs	PTC- WEN
BIOMECH	Rossana Marie C. Amongo	AFMTs as propellers in Strengthening Food Security, Feed and Energy Sustainably to Enhance Competitiveness: The Philippine Experience	Indonesian Society of Agricultural Engineering International Seminar (ISAE IS)
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, Clarissa Ileana L. Ilao, Gerlie Nelle L. Lalap, L.E. Oguis, and Pechie B. Melendez	Harmonization of Agricultural Mechanization Index (AMI) for Food Security	Philippine Society of Agricultural Engineers
BIOMECH	Rossana Marie C. Amongo, Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Fernando O. Paras, Jr., Rosa B. delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr., Mark Daniel G. Estrada, and Ronnie C. Valencia	Diffusion and Utilization of Agricultural Mechanization Technologies and Knowledge Systems in Corn Production Systems to Attain Food Security	Philippine Society of Agricultural Engineers
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, Clarissa Ileana L. Ilao, Gerlie Nelle L. Lalap, L.E. Oguis, and Pechie B. Melendez	Determination of Mechanization Index in Selected ASEAN Countries	14th International Con- ference and 67th PSAE Annual National Conven- tion

	2017		
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
BIOMECH	Rossana Marie C. Amongo, Dr. Maria Victoria L. Larona, Engr. Ronnie C. Va- lencia, and Engr. Mark Daniel G. Estrada	Farmers' Perception on the Introduction and Utilization of Agricultural Mechanization Technologies in Corn-Based Cropping System in Masbate, Philippines to Increase Cropproductivity for Food Security	14th International Conference and 67th PSAE Annual National Convention
BIOMECH	Alexis C. Del Rosario	Mechanization of Upland Rain- fed FSTP Corn Areas in Cebu Province	Philippine Society of Agricultural Engi- neers
BIOMECH	Ronel S. Pangan, Kevin F. Yaptenco, Jeremy Charles S. Deanon, and Jonnel Andrew C. Duque	Design and Development of a Mechanical Cleaner/Scraper for the Processing of Sea Cucum- bers	Philippine Society of Agricultural Engi- neers
BIOMECH	Rossana Marie C. Amongo, Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Fernando O. Paras, Jr., Rosa B. delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr., Mark Daniel G. Estrada, and Ronnie C. Valencia	Enhancing Corn Postproduction for Food Security through the Introduction and Utilization of Corn Mechanization Technologies	Philippine Society of Agricultural Engi- neers
BIOMECH	Ronel S. Pangan and Ampy Paulo K. Roxas	Design Fabrication and Testingof a Floating Dyer for Seaweeds	Philippine Society of Agricultural Engi- neers
	2016		
IAE	Arthur L. Fajardo and Alexis C. del Rosario	Current Status of the Root Crops Values Chain in the Phil- ippines and Prospects for Mechanization Interventions	Centre for Sustain- able Agricultural Mechanization
IAE	Erwin P. Quilloy et al.	Design, Development, and Calibration of an Arduino- Based Soil Moisture Measuring System	Philippine Society of Agricultural Engi- neers
IAE	Roger A. Luyun Jr., Joseph Daniel C. Sandoval & Fumera	Technical Evaluation of Communal Irrigation Systems	Philippine Society of Agricultural Engi- neers
IAE	Arthur L. Fajardo	Performance of Float-Assisted Tiller Using Different Tilling Wheel Blade Configuration	Philippine Society of Agricultural Engi- neers
IAE	Maria Victoria L. Larona, Borja & Rossana Marie C. Amongo	Production and Post-Production Systems' Mechanization Level for Corn and Cassava in Siqui- jor, Philippines	Philippine Society of Agricultural Engi- neers
IAE	Blanca-Ocreto, Arnold R. Elepaño et al.	Maintaining Quality of Sweet Sorghum Stalks through Drying and Hermetic Packaging	Philippine Society of Agricultural Engi- neers
IAE	Agngarayngay & Arnold R. Elepaño	Heat Transfer Modeling of Carabao Mango (<i>Mangifera indica</i> L.) during Postharvest Hot Water Treatments	Philippine Society of Agricultural Engi- neers
IAE	Ronel S. Pangan, Kevin F. Yaptenco, Deanon & Duque	Design and Development of a Smoke Dryer Cum Boiler for Processing Sea Cucumber	Philippine Society of Agricultural Engi- neers
IAE	Rossana Marie C. Amongo, Arthur L. Fajardo, Delfin C. Suministrado & Gherlee Nelle L. Lalap,	Compressive Failure Characteristics of Cashew Nut (Anacardium occidentale L.) Shell	Philippine Society of Agricultural Engi- neers
IAE	Fernando O. Paras Jr. et al.	Evacuated Tube Solar Water Heater as Heat Source for the Hot Water Treatment of Mango (Mangifera indica L.)	Philippine Society of Agricultural Engi- neers

		2016	
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
IAE	Pantuhan and Arnold R. Elepaño	Osmotic Dehydration of Semi- refined Carrageenan: Mass Transfer Kinetics and Effects on Properties	Philippine Society of Agricultural Engineers
IAE	Rossana Marie C. Amongo, Maria Victoria L. Larona and Ariodear C. Rico	Agricultural and Fisheries Mechanization Technologies (AFMTs) for Sustainable Philippine Agriculture and Fishery Production Systems	4th Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific
IAE	Gherlee Nelle L. Lalap, Rossana Marie C. Amongo, Arthur L. Fajardo & Delfin C. Suministrado	Compressive Failure Characteristics of Cashew Nut (<i>Anacardiumoccidentale</i> L.) Shell	13th International Agricultural Engineering Conference & Ex- hibition and 66th PSAE Na- tional Convention 27th Philip- pine Agricultural Engineering Week
IAE	Ma. Victoria L. Larona, Rossana Marie C. Amongo, Adrian A. Borja & Jan Marion C. Amongo	Production and Post-Production Systems' Mechanization Level for Corn and Cassava in Siqui- jor, Philippines	13th International Agricultural Engineering Conference & Ex- hibition and 66th PSAE Na- tional Convention 27th Philip- pine Agricultural Engineering Week
IAE	Rex O. Yadao & Rossana Marie C. Amongo	Development of Sugarcane Me- chanical Planter	13th International Agricultural Engineering Conference & Exhibition and 66th PSAE National Convention 27th Philippine Agricultural Engineering Week
DChE	Meah C. Dequito, Francisco B. Elegado, Jeanne Michelle T. Valencia, Marilyn C. Del Barrio & Rhebner E. Arocena	Electrolytic Removal of Ammo- nia in Simulated Seawater in the Presence of Organic Matter from Shrimp Feed Extract	36th Annual KKP-ST Convention. Chemistry Advocates for a Responsible Environmental Stewardship
DCE	Nimfa Maren S. Tabucal, Ariel Miguel M. Aragon- cillo, Crisaulo M. Reynoso, Marish S. Madlangbayan, Emmanuel C. Macatula	Investigation On the Compressive Strength of Concrete Containing Acid Treated Rice Hull Ash Cement Replacement	Association of TokyoTech Alumni and Research Scholars & Association of Structural En- gineers of the Philippines
DCE	Nimfa Maren S. Tabucal, Michael Vincent O. Laurio, Perlie P. Velasco, Richelle G. Zafra, Marish S. Mad- langbayan, Jhon Romie D. Zapanta	Development of Pre-Cast Rice Husk Ash Geopolymer Mortar Based On an Empirical Mix Model and The Effects of Activa- tor Concentration and Alumina Admixture On Early-Age Com- pressive Strength	Association of TokyoTech Alumni and Research Scholars
DCE	Perlie Velasco, Marloe Sundo, Victor Mikael De Padua, Sharmaine Re- mos, Toni Janssen Mon- serrat, Shery Gale Re- camara	Use of Waste Materials as Filter Media of Vertical Subsurface Flow Constructed Wetlands for Pig Farm Effluent Treatment of University Farm, UPLB	Association of TokyoTech Alumni and Research Scholars
DCE	Marloe Sundo, Raymart Steven Resuello, Perlie Velasco, Marish Madlang- bayan	Comparative Analysis of Utilizing Plastic Wastes through Waste-to Energy and Plastic-To-Fuel Utilization Approaches forLucena City, Quezon	Association of TokyoTech Alumni and Research Scholars
145	LEOD MICE. 1147. 5	2015	LADEV Dec. 17551 0
IAE	EGB, MJCR, JMT, Rossana Marie C. Amongo, MAG, CCPP, UJL Jr., RBM, EVA, and JPV	Enhancing Agricultural Mechanization through Efficient Land Reformation – Action Plan of the Philippines	KAPEX Program KREI, Seoul, South Korea

2015			
DEPARTMENT	AUTHOR(S)	TITLE OF PAPER	DETAILS
IAE	Rossana Marie C. Amongo & Ma. Victoria L. Larona	The Role of Philippine Higher Education Institu- tions in Human Resource Development for Sustain- able Agricultural Mechani- zation	11th Session of the Governing Council and Technical Committee of CSAM and 3rd Asean Confer- ence On Agricultural And Bioys- tems Engineering
IAE	Ruzgal, Job Jonas, Neil Caesar M. Tado, Michael A. Lucernas and Rossana Marie C. Amongo	Economic Analysis and Planning of Establishing of a Rice-Based Machinery Service Center in Oriental Mindoro	11th Session of the Governing Council and Technical Committee of CSAM and 3rd Asean Confer- ence On Agricultural And Bioys- tems Engineering
IAE	Rossana Marie C. Amongo, Ma. Cristine Concepcion D. Ignacio, Mark Keylord S. Onal, Jeffrey A. Gonzales, Patrick Lemuel P. Rela- tivo, Maria Victoria L. Larona & Angeli Grace M. Castalone	Outcomes-Based Education: The Case of IAE	2015 PAES International Conference on Engineering Education
IAE	Rossana Marie C. Amongo, Jasper C. Aliangan, Arthur L. Fajardo, Ralph Kristoffer B. Gallegos, Ronel S. Pangan	Performance Evaluation and Optimization of the AMDP Cassava Granulator	12th International Agricultural Engineering Conference & Exhibition and 65th PSAE National Convention 26th Philippine Agricultural Engineering Week
IAE	Rossana Marie C. Amongo, Maria, Victoria L. Larona, Victor A. Ro- dulfo, Jr., Alexis C. del Rosario, Jose D. de Ramos, Angeli Grace M. Castalone, Mark Ferdie V. Eu- sebio, Adrian A. Borja, Jan Marion C. Amongo	Cost and Returs Analysis for Rice Production-Post Production Systems in Se- lected Regions of the Phil- ippines	12th International Agricultural Engineering Conference & Exhibition and 65th PSAE National Convention 26th Philippine Agricultural Engineering Week
IAE	Fernando O. Paras Jr., Rectorino P. Escobin, Rossana Marie C. Amongo, Ralph Kristoffer B. Gallegos, Omar F. Zubia, Lizbeth A. Mariano and Jomiline Bernadeth C. Alamo	Optimization of Soybean Roasting for Animal FeEds: The UPLB Bean Roaster	12th International Agricultural Engineering Conference & Exhi- bition and 65th PSAE National Convention 26th Philippine Agri- cultural Engineering Week
IAE	Suñaz Esperidion C., Rossana Marie C. Amongo, Delfin C. Su- ministrado,Fernando O. Paras Jr., Pamela G. Fernandez	Development of a Honey Extracting Machine for Stingless Bees (Tetragonula Spp.)	12th International Agricultural Engineering Conference & Exhibition and 65th PSAE National Convention 26th Philippine Agricultural Engineering Week
DCE	Perlie P. Velasco, Marish S. Madlangbayan, Richelle G. Zafra, Marloe B. Sundo, H.S.A. Ingente, C.F.S Eleazar, & R.A.O. Gedoria	Effect of Treated Sewage Sludge (Biosolids) as Par- tial Cement Replacement on the Compressive, Split Tensile and Flexural Strength of Concrete	12th International Agricultural Engineering Conference & Exhi- bition and 65th PSAE National Convention 26th Philippine Agri- cultural Engineering Week
DCE	Marish S. Madlangbayan, A.C. Edora, J.A.A. Ramos, Nimfa Ma- ren S. Tabucal, Crisaulo M. Rey- noso &Timothy M. Bertiz	Effect of Varying Curing Period on Chloride Pene- tration Depth and Sorptivity of Type I Cement Concrete with Sugarcane Bagasse Ash (SCBA) as Partial Ce- ment Replacement	Association of TokyoTech Alumni and Research Scholars
DCE	Marloe B. Sundo and Karl N. Vergel	An O-D Approach of Estimating Energy Demand and CO ₂ Emission for the Luzon Road Transport using Inter-Regional Passenger and Freight Flow Data	Eastern Asia Society for Transportation Studies
DCE	Marish S. Madlangbayan, Malaran S.F.J., C.L. Santiago, Nimfa Ma- ren S. Tabucal, Marloe B. Sundo and Perlie P. Velasco	Investigation on the Sorptivity and Corrosion Resistance of Concrete that Utilizes Recycled Concrete as Coarse Aggregates	Association of TokyoTech Alumni and Research Scholars

		2015	
DEPARTMENT	AUTHOR	TITLE	PUBLICATION DETAILS
	Marloe B. Sundo, M.E.B. Cortes, T.D.L. Urbano, J.D.D. Lasco, Perlie P. Velasco, Richelle G. Zafra and Marish S. Madlangbayan	Investigation on the Chloride Penetration Depths in Concrete that utilizes Ceramic Tile Wastes as Aggregates	Association of Tokyo- Tech Alumni and Re- search Scholars
DEE	Adrian Augusto M. Sumalde	Empirical Evaluation of Crystalline Silicon and Amorphous Silicon Thin-Film Photovoltaic Module Performance Using Current- Voltage Characteristics	CHED Research Colloquium, CHED, UP Diliman, Quezon City

PUBLISHED AS A BOOK

2016			
DEPARTMENT	AUTHOR	TITLE	PUBLICATION DETAILS
	Roberto F. Rañola, Jovita L. Movillon & Rex B. Demafelis	The Philippines Biofuels Industry: Defining the Strategic Directions	U. P. Los Baños & DA- BAR, Phil. 199 pages

CHAPTER IN A BOOK

	2015		
DATE	AUTHOR(S)	TITLE	PUBLICATION DETAILS
IAE	Arnold R. Elepaño, Maria Victoria L. Larona, and Rossana Marie C. Amongo	Overview of Mechanization in Rice Farming: Status, Challenges, and Opportunities. Rice Mechanization in the Philippines	Asia Rice Foundation. Pp 1- 24 ISBN-978-971-93163-9-8
IAE	A.T. Belonio, R. F. Orge, Caesar Joventino M. Tado, M.J.C. Regalado, V. T. Taylan, Fernando O. Paras Jr., Rossana Marie C. Amongo, and B.D. Tadeo	Renewable Energy Tech- nologies for Rice Mechaniza- tion	Rice Mechanization in the Philippines; Asia Rice Foundation. Pp 165-186 ISBN-978-971-93163-9-8
IAE	Rossana Marie C. Amongo, Maria Victoria L. Larona, Arsenio N. Resurreccion, Romeo B. Gavino, E.V. Sicat, Ariodear C. Rico, F.M. Macalintal, R. Fernandez	Research, Development and Extension (RDE) and Man-power Development In Rice Mechanization: Status, Trends and Opportunities in the Philippines	Rice Mechanization in the Philippines; Asia Rice Foundation. Pp 229-264 ISBN-978-971-93163-9-8
IAE	Jamie Kim B. Arias, Moises A. Dorado & Rowena Do- rado	Economic Vulnerability and Possible Adaptation to Coastal Erosion in San Fer- nando City, Philippines	Cost- Benefit Studies of Natural Resource Manage- ment in Southeast Asia: Chapter 15
IAE	Jamie Kim B. Arias, Rowena Dorado, Maria Emilinda T. Mendoza & Vicente G. Ballaran Jr.	Exploring the Potentials of a Technology-based Flood Early Warning System in Laguna, Philippines: A Cost-Benefit Analysis	Cost- Benefit Studies of Natural Resource Manage- ment in Southeast Asia: Chapter 17
DChE	Teodoro C. Mendoza, Rex B. Demafelis, Anna Elaine D. Matanguihan, Justine Allen S. Malabuyoc, Richard V. Magadia, Jr., Amabelle A. Pector, Klarenz A. Hourani, Lavinia Marie A. Manaig and Jovita L. Movillon	Chapter 20. The Carbon Footprint of Sugar Production in Eastern Batangas, Philip- pines (pp. 451-472)	The Carbon Footprint Hand- book by Subramanian Senthilkannan Muthu by CRC Press; https://www.crc press.com/The-Carbon-Foot print-HandbookMuthu/97814 82262223#googlePreviewCo ntainer; 533 pages

MANUALS, SYLLABI, PROFESSIONALS CHAIRS

DATE	AUTHOR(S)	TITLE OF SYLLABUS/MANUAL	DETAILS
2016	Angelie D. Revilla	IE 141 Lecture Manual	UPLB Centennial Faculty Grant
2016	Ma. Cristine Concepcion D. Ignacio	Laboratory Manual ABE 51 (Crop Processing I)	UPLB Faculty Grant
2015	Rossana Marie C. Amongo	Corn Shelling Machinery. Manufacturers' Training on the Fabrication of the AMDP Two-Drum Corn Sheller. SSC, Larena Siquijor	UPLB Faculty Grant
2015	Rossana Marie C. Amongo	Hand Tractor Designs and their Transmission Systems. Training on the Fabrication of the UPLB Hand Tractor. SSC, Larena Siquijor. AMDP, IAE	UPLB Faculty Grant
2015	Haerold Dean Z. Layaoen	Development of Lecture Syllabus for IE 31 (Industrial Organization and Management)	UPLB Centennial Faculty Grant
2015	Arthur L. Fajardo	Lecture & Laboratory Manual for ABE 145 Soil Machine Mechanics	UPLB Faculty Grant
2015	Michael Vincent O. Laurio	Lecture Syllabus on Agro-Industrial Waste Management	UPLB Faculty Grant
2014	Roger A. Luyun Jr.	Laboratory Manual ABE 72 (Irrigation and Drainage Engineering I)	UPLB Faculty Grant
2014	Rosa B. De Los Reyes	Laboratory Manual ABE 70 (Fundamentals of Surveying)	UPLB Faculty Grant
2014	Arthur L. Fajardo	Course Manual ABE 145 (Soil Tillage)	UPLB Faculty Grant
2014	Kevin F. Yaptenco	Course Manual ABE 151 (Crop Processing II)	UPLB Faculty Grant
2014	Roderick L. Catriz	Lecture Syllabus for EE 11 (Fundamentals of Electrical Engineering I)	UPLB Faculty Grant
2014	Haerold Dean Z. Layaoen	Development of Solutions Manual for the Qualitative, Quantitative, and Case Study Problems of Production Systems for the Laboratory Class of IE 151	UPLB Centenial Faculty Grant

DATE	AUTHOR(S)	TITLE OF PROFESSIONAL CHAIR	DETAILS
2016	Perlie P. Velaso	Application of Subsurface Constructed Wetlands for Domestic Wastewater Treatment using Yellow Buho Bamboo with Varying Filter Media	UPLB Centennial Professorial Chair
2016	Borines, Myra G.	Prospects of Macroalgae– based Biorefinery in the Philippines	UPLB Centennial Professorial Chair
2016	Arnold R. Elepaño	Reduction of Rice Post-Harvest Losses to Attain Rice Self-Sufficiency: A Critical Analysis	UPLB Centennial Professorial Chair
2016	Engelbert K. Peralta, Ma. Cristine Concepcion D. Igna- cio	Performance Analysis of Nanosilica Powder from Rice Hull Ash for Use in Various Engineering Applications	UPLB Centennial Professorial Chair
2016	Rossana Marie C. Amongo, Fernando O. Paras, Jr & Mark Keylord S. Onal	Re-Powering Philippine Agriculture through UPLB Developed RE Technologies	UPLB Centennial Professorial Chair
2014	Jessie C. Elauria	Comparative Life Cycle Greenhouse Gas (GHG) Assessment of Cassava and SugarCane for Bioethanol Production in the Philippines	PNOC Professorial Chair
2014	Rossana Marie C. Amongo & Delfin C. Suministrado	AMDP and AMTEC, World-Class Institutions for Agricultural Mechanization Development	UPLB Centennial Professorial Chair

INDUSTRY LINKAGES

MLB Research and Innovation Consortium MOU Signing

The Memorandum of Understanding agreement between the members of the Manila-Laguna-Batangas research and Innovation Consortium was held last September 8, 2017 at Tanauan, Batangas.

The consortium desires to promote cooperation among members that will lead and drive collaborative research in the field of Science, Technology, Engineering and Mathematics. Given that the Southern Luzon is the hub of some of the biggest electronics manufacturing industry in the country, this will strengthen collaborations between and among the academic institutions and these industries.

The Department of Science and Technology will served as the catalyst of the six proponents of the MLB Research Corridor.



UPCEATAA is now affiliated with UPAE

On September 4, 2017, almost a year after the fruitful discussion between some of UP Alumni Engineers' officers and our UP CEAT Alumni Association President, Engineer Bibiano Ramos, UPCEATAA is now officially affiliated with the association.

The membership is granted to engineering organizations who are under the UP System and supporting the aims and objectives of the organization.

As an affiliate member, UPCEATAA has the benefits of accessing the UPAE database, participating in the publication of the UPAE's annual journal, freedom to access, post and crosslink to the association's website (www.upae.org), joining and participating in UPAE activities and attending classes and professional development courses in National Engineering Center (NEC) in UP Diliman.



STUDENT EXCHANGE PROGRAM







One of the activities of the college to expose our students in the international arena is to enhance and promote the exchange-student program.

We have already started sending students last June 2016, from which four of our engineering students visited the Tokyo Metropolitan University. They have attended practical training in river engineering and

water resource management in the university's Department of Civil and Environmental Engineering.

We also met with the professors of National Tsing Hua University for possible exchange program opportunities. We keep on expanding our connections to promote interuniversity programs and to expand academic relationships between schools.

MEETING WITH COMPANIES and JOB FAIRS

As their college, we also help our students in looking for possible employment company after they graduate by conducting the annual CEAT Job Fair.

In this event, we invite different companies related to the engineering field and are open for possible academe- industry linkages in

the future. We are also open to have meetings for On-the-Job related appointments within companies and for possible research and project collaborations within the area expertise of the college and the different departments.



Artesyn, 2016

John Clements, 2016

GBPlen Korea, 2015

AMS Asia, 2016

Maxim Integrated, 2016

Laguna AAA Water Corp, 2016







2016 CEAT Job Fair





2015 CEAT Job Fair





INTERNATIONAL VISITORS

9 September 2017 National Tsing-Hua University professors, SW Chen, SY Lu, DSH Wong, and HH Chou, vivited CEAT for a discussion meeting and presentation for possible research collaboration and student exchange program and lecture seminar on their degree program offerings to the control of the program of		INTERNATIONAL VISITORS	
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		Dr. K.C. Tan, AUN-QA - Senior Expert, Singapore; Dr. Komalwan Lueprasert, AUN-QA -	

LOCAL VISITORS

Visitors	2014– 2017
Institutions/ Universities	102
Government Institutions	41
Company Staff	105
Engineers	11
Farmers	174
OJT	13
Students	964
Field Trip	9

CEAT welcomes local visitors from different companies, government institutions, private institutions, universities, colleges, public high schools and individual entities who are visiting the college for different purposes.

From the year 2014— 2017, we have recorded that the following data have visited the college's units and departments: 102 staff from various universities, colleges and institutions; 41 personnel from different government offices; 105 company staff; 11 engineers from government and public offices; 174 farmers; 13 On-the-Job training students; and 964 students who visited from the nine (9) educational trips and tours.

We welcomed different government institutions and the staff to discussed possible research collaborations and projects. We extended our hands to seek the help of honorable personnel who can share their knowledge especially in agriculture-related

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Dr. Ming Xu served as a resource speaker during the forum 'Industrial Ecology: From Product to Trade'

training and workshops.

We opened research collaborations and industry-linkage programs that can benefit both the college and the private sectors. We signed Memorandum of Understanding and Memorandum of Agreements with the companies that are also open to extend their programs and projects with the college.

We opened our units and offices for On-the-Job training of students. We appreciated the schools and organizations that held their educational trips in our facilities to introduce them in the works and processes of the college especially in agriculture-related fields.

We are looking forward for more visitors in the future. We are thinking and preparing plans and projects to make the visits more fruitful and productive. We are also hoping that these visits will be the road to a stronger and wider academe—industry linkage.



University of Michigan Professors served as resource speakers in DIE lecture

RESEARCH EXTENSION TRAINING

























INCREASED REFEREED ARTICLES IN JOURNALS AND PATENTS

We encouraged our faculty members and REPS to make research works related to their engineering fields that are helpful and beneficial to the growth and development of the society.

For this term, the college produced 67 journals courtesy of different publishers with inter- departmental collaborations to further improve the impact of the study. We also conducted forums where the faculty is open to question, suggest and critic the

presented work.

We keep track of our college's researches and motivate them to present their works in different conferences, workshops and fora to showcase its benefits and impact to the problems of the society. We helped in the promotion of the works to get published by related research organizations and publishers to reach the target audience, especially our farmers.

JOURNAL PUBLICATIONS

2017			
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION DETAILS
IAE	Mona Liza F. Delos Reyes, Bart Schultz & Krishna Prasad	Modernization Strategy for National Irrigation System in the Philippines: Linking Design, Operation and Water Supply	Irrigation and Drain- age Journal
IAE	Aaron James M. Bauyon, Ma. Cristine Conception D. Ignacio, Kevin F. Yaptenco, and Engel- bert K. Peralta	Bruising of Avocado (Persa americana Mill.) as Affected by Impact Energy, Fruit Temperature, and Storage Temperature	Philippine e-journal for Applied Re- search and Develop- ment
IAE	Junfeng Pan, Yanzhuo Liu, Xuhua Zhong, Rubenito M. Lampayan, Grant R. Singleton, Nongrong Huang, Kaiming Liang, Bilin Peng, and Ka Tian	Grain yield, water productivity and nitrogen use efficiency of rice under different water management and fertilizer-N inputs in South China	Agricultural Water Management; El- sevier B.V., Volume 184, Pp 191– 200
IAE	Alexander M. Stuart, ARPPame, DVithoonjit, L.Viriyangkura, JPithuncharurnlap, NMeesang, PSuksiri, GRSingleton, and Rubenito M. Lampayan	The application of best management practices increases the profitability and sustainability of rice farming in the central plains of Thailand	Field Crops Research; Elsevier B.V
IAE	Arthur L. Fajardo	Puddling Performance of Different Tilling Wheel Designs of the Float- Assisted Tiller in a Laboratory Soil Bin Set-up	ISI Journal: Philip- pine Agricultural Scientist, 100: 331- 336
IAE	Juanito D. Burguillos, Jessie C. Elauria and Irene De Vera	Design, Construction and Performance Evaluation of an Indirect Solar Dryer for Fermented Cacao Beans	Philippine e-Journal for Applied Re- search and Develop- ment (2017) Vol.7 pages 1-11.
DChE	Denise Ester O. Santiago and Bryan B. Pajarito	Mechanical properties and water sorption of geothermal silica/ thermoset composites; Materials Science and Engineering	IOP Publishing Ltd. Volume 201
DChE	Michael Vincent O. Laurio, Bernard Natividad, Dingcerlynne S. Zotomayor, Catalino G. Alfafara	Treatment of Distillery Slops via Modified Fenton's Process Using Calcium Peroxide as Oxidant Source	ISI Journal: Philip- pine Institute of Chemical Engineers
DChE	Sergio C. Capareda and Monet Concepcion M. Detras	Determining the Operating Condition for Maximum Bio-oil Production from Pyrolysis of Nannochloropsis oculata	Philippine Journal of Crop Science 42 2 37-47
DChE	Monet Concepcion M. Detras and Sergio C. Capareda	Upgrading of bio-oil and aqueous liquid product from pyrolysis of microalgae (<i>Nannochloropsis oculata</i>) by fractional distillation	International Journal of Biosciences

	201	7	
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION DETAILS
DChE	Rex B. Demafelis, Antonio J. Alcantara, Enrique P. Pacardo, Maxima E. Flavier & Anna Elaine D. Matanguihan	Energetics and Water Requirement of a Commercial-Scale Sweet Sorghum Ethanol Production	Journal of Environ- mental Science and Management Special Issue No.1
DChE	Amabelle A. Pector, Jovita L. Movillon, Butch G. Bataller & El Jirie N. Baticados	Parametric Study on the Effect of Congeners on Molecular Sieve Dusting during Ethanol Dehydration	Journal of Environ- mental Science and Management Special Issue No.1
DChE	Anthony B. Obligado, Rex B. Demafelis, Anna Elaine D. Matanguihan, Virgilio T. Villancio, Richard V. Magadia, Jr. & Lavinia Marie A. Manaig	Carbon Emission Inventory of a Commercial-Scale Jatropha (Jatropha curcas L.) Biodiesel Processing Plant	Journal of Environ- mental Science and Management Special Issue No.1
DChE	Donna Wren B. Libunao, Antonio J. Alcantara, Manolito E. Bambase, Jr. & Lisa Stephanie H. Dizon	Optimization Study of Biodiesel Production from Refined Palm Oil via Base-Catalyzed Trans- esterification	Journal of Environ- mental Science and Management Special Issue No.1
DChE	Rex B. Demafelis, Kristel M. Gatdula, Justine Allen S. Malabuyos & El Jirie N. Baticados	Sweet Sorghum Juice and Syrup Production Using Con- ventional Sugarcane Mill and Evaporator	Journal of Environ- mental Science and Management Special Issue No.1
DChE	Kristel M. Gatdula, Jovita L Movillon, Gino Apollo M. Guerrero & Dionelle A. Arellano	Storage Stability Test of Sweet Sorghum SPV 422 (Sorghum bicolor L. Moench) Syrup	Journal of Environ- mental Science and Management Special Issue No.1
DCE	Benito, E. D., Marish S. Madlangba- yan, Nimfa Maren S. Tabucal, Marloe B. Sundo, Perlie P. Velasco	Corrosion Damage Measure- ment on Reinforced Concrete by Impressed Voltage Technique and Gravimetric Method	ISI Publication: International Jour- nal of Geomate
DIE	Jan Karl P. Binarao, Haerold Dean Z. Layaoen, Josefa Angelie D. Revilla, Angelo C. Ani, Maria Liezel P. Ca- roche	Effectiveness of Commercially Available Vibration Dampeners in Reducing Hand-Arm Vibrations on Diesel-Powered and Gasoline-Powered Hand Tractor	ISI Journal: Philip- pine Agricultural Scientist
BIOMECH	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, Clarissa Ileana L. Ilao, and Ger- lie Nelle L. Lalap	Operational Procedure & Policy for the Standardized Agricultural Mechanization Index in the Phil- ippines	CAFED- Bureau of Agricultural and Fisheries Engi- neering – Depart- ment of Agriculture
BIOMECH	Rossana Marie C. Amongo and Ariodear C. Rico	Establishing a Cooperation Mechanism for Human Resource Development on Sustainable Agricultural Mechanization: The Philippine Experience	Center for Sustain- able Agricultural Mechanization UN ESCAP
BIOMECH	Rossana Marie C. Amongo, Fernando O. Paras Jr., Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Rosa B. Delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr., Mark Daniel G. Estrada, and Ronnie C. Valencia	Enhancing Productivity and Utilization of Corn Mechanization Technologies	TCABE-CHED
BIOMECH	Rossana Marie C. Amongo, Fernando O. Paras Jr., Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Rosa B. Delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr, Mark Daniel G. Estrada, and Ronnie C. Valencia	Minimizing Post Production Losses through the Introduction and Utilization of Corn Mechani- zation Technologies	National Agricul- ture and Fisheries Education System (NAFES) - CHED

2017			
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION DETAILS
BIOMECH	Rossana Marie C. Amongo, Fernando O. Paras Jr., Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Rosa B. delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr., Mark Daniel G. Estrada, and Ronnie C. Valencia	Enhancing Productivity through the Utilization of Innovative Corn Mechanization Technologies for Food Security	National Agricul- ture and Fisheries Education System (NAFES) - CHED
		2016	
IAE	Kevin F. Yaptenco, Sharmaine N. Pardua, and Jonnel Andrew C. Duque	Moisture Sorption Isotherms of Dried Sea Cucumber for <i>Holothuria scabra</i> for Prediction of Shelf Life	World Aquaculture Society
IAE	Ronel S. Pangan, Kevin F. Yaptenco, and Sharmaine N. Pardua	Enhancing the Philippine Sea Cu- cumber Industry through the Develop- ment of Appropriate Processing Technology	World Aquaculture Society
IAE	Armstrong PR, Maghirang EB, Kevin F. Yaptenco, Pearson TC	Visible and near-infrared instruments for detection and quantification of individual sprouted wheat kernels	Journal by Trans- actions of the ASABE
IAE	Mona Liza F. Delos Reyes, Bart Schultz, Krishna Prasad	Diagnostic assessment approach for formulating a modernization strategy for small-scale National irrigation systems in the Philippines.	Irrigation and Drainage Journal
DCHE	Ramer P. Bautista and JC Munoz	Degradation of Tetracycline in Synthesized Wastewater using Rotating TiO ₂ -coated Corrugated Aluminum Drum	International Jour- nal of Applied Chemistry Vol 12 No 1 Special Issue
DCHE	Denise Ester O. Santiago and Bryan B. Pajarito	Parametric Study of Silica Precipitation from Geothermal Brine	Key Engineering Materials, Trans Tech Publication, Switzerland
DCHE	Denise Ester O. Santiago, Bryan B. Pajarito, Winna Faye F. Mangaccat, Maelyn Rose M. Tigue, and Monica T. Tipton	Effect of bentonite modification on hardness and mechanical properties of natural rubber nanocomposites	AIP Publishing, USA
DCHE	Denise Ester O. Santiago, Bryan B. Pajarito, Mark John A. Aparre, Karl Joel E. Biolena and Yvette Celina W. Condez	Ambient Blooming Behavior and Mechanical Properties of Vulcanized Natural Rubber Loaded with Nonlonic Surfactants	Diffusion Foundations, Trans Tech Publication, Switzerland
DCE	Marloe B. Sundo, Karl N. Vergel, Ricardo G. Sigua, Jose Regin F. Regidor	Methods of Estimating Energy Demand and CO2 Emissions for Inter- Regional Road Transport	ISI Publication: International Jour- nal of Geomate
DCE	Mart Dayniel M. Clanor, Erwin C. Escobar, Romina Gloria M. Bondad, Maurice A. Duka, Jey-R S. Ventura, Adeliza A. Dorado, Maria Morissa D. Lu, Paolo Rommel P Sanchez, Fran- cis M. Mulimbayan	Daily Streamflow Forecasting of the Gauged Molawin Watershed using Model Combinations and the Un- gauged Eastern Dampalit Watershed by Spatial Proximity Regionalization	Refereed Journal: CICM (PeJARD)
DCE	Annie Liza C. Pintor, Marck Anthony A. Magpantay, Marife R. Santiago	Development of an Android-Based Maturity Detector Mobile Application for Watermelons [Citrullus Lanatus (Thunb.) Matsum. & Nakai] using Acoustic Impulse Response	Philippine e- Journal for Applied Research and De- velopment
DIE	Mikel Angelo B. Yap, Haerold Dean Z. Layaoen, Josefa Angelie D. Re- villa, Angelo C. Ani and Frederick Moses M. Blanco	Effectiveness of Substitute Vibration Dampers in Reducing Hand-Arm Vibrations of a Gasoline-Fueled Hand Tractor	ISI Journal: Philip- pine Agricultural Scientist
DIE	Jessa Marie M. Mojica, Mikel Angelo B. Yap, Haerold Dean Z. Layaoen, Rossana Marie C. Amongo, Angeloc C. Ani, Josefa Angelie D. Revilla	Design and Fabrication of an Ergo- nomic Handlebar Structure of a Hand Tractor for Vibration Suppression	ISI Journal: Philip- pine Agricultural Scientist

		2015	
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION
IAE	Yadao, Rex O., Rossana Marie C. Amongo, Delfin C. Suminis- trado and Engelbert K. Peralta.	Design and Modification of a Semi - automatic Single-Row Sugarcane Planter	DETAILS Philippine Journal of Agricultural & Biosystems Engineering. Vol XI. 2015 Issue.
IAE	Arnold R. Elepaño, Maria Victoria L. Larona, and Rossana Marie C. Amongo	Overview of Mechanization in Rice Farming: Status, Challenges, and Opportunities	Asia Rice Foundation
IAE	Rossana Marie C. Amongo	The Role of Philippine Higher Education Institutions in Human Resource Development for Sustainable Agricultural Mechanization	Center for Sustainable Agricultural Mechani- zation
IAE	Rossana Marie C. Amongo, Maria Victoria L. Larona, Arsenio N. Resurreccion, RB Gavino, EV Sicat, AC Rico, FM Macalintal, R Fernandez	Research, Development and Extension (RDE) and Manpower Development in Rice Mechanization: Status, Trends and Opportunities in the Philippines	Asia Rice Foundation
IAE	Belonio,A.T., R. F. Orge, C.J.M. Tado, M.J.C. Regalado, V. T. Taylan, Fernando O. Paras Jr., Rossana Marie C. Amongo, and B.D. Tadeo	Renewable Energy Technologies for Rice Mechanization	Asia Rice Foundation
IAE	Rossana Marie C. Amongo, Pee- yush Soni, Lian Zhang	Creating an Enabling Environment for Custom Hiring of Agricultural Machinery in Myanmar's Dry Zone	Center for Sustainable Agricultural Mechani- zation
IAE	Yuki Kudoh, Masayuki Sagisaka, Sau Soon Chen & Jessie C. Elauria	Region-Specific Indicators for Assessing the Sustainability of Biomass Utilization in East Asia	Non-ISI Journal: Sustainability Open Access Journal
IAE	Arsenio N. Resurreccion	Agricultural Machinery Manufacturing, Credit and Incentives	Asia Rice Foundation
IAE	Arthur L. Fajardo & Delfin C. Suministrado	Puddling characteristics of a single tilling wheel of float-assisted tillers at different blade shapes and wheel slips	ISI Journal: Philippine Agricultural Scientist, 98: 438-445
IAE	Elisa S.J. Onal, Rossana Marie C. Amongo, Ronaldo B. Saludes, Delfin C. Suministrado, Mark Keylord S. Onal	Optimization of a low head microhydro system for electricity generation	ISI Refereed Journal: Asia Life Sciences
IAE	Caezar A. Cuaresma, Jessie C. Elauria, Delfin C. Suministrado <i>et al.</i>	Utilization of Jatropha (Jatropha curcas L.) Wastes for Charcoal Briquettes	ISI Journal: Journal of Japan Institute of En- ergy
IAE	Virgilio S. Morales III, Jessie C. Elauria, <i>et al.</i>	Carbonization of Young Coconut (Cocos nucifera) Waste	ISI Journal: Journal of Japan Institute of Energy
IAE	Arthur L. Fajardo et. al.	Puddling Performance of the Till- ing Wheel of Float-Assisted Tillers at Different Forward SpeedAL	International Soil Tillage Research Organization (ISTRO)
IAE	Erwin P. Quilloy and Pepito M. Bato	The Machine Vision-based Soft- ware for Automating the Grading Process	ISI Journal: Philippine Agricultural Scientist
IAE	R.M. Bondad, Victor B. Ella, Ro- analdo B. Saludes, M.R. Reyes and A.R. Mercado, Jr	Simulating the Impact of Conservation Agriculture on Corn Yield in the Philippines Using the DSSAT CERES-Maize Model	ISI Journal: Philippine Agricultural Scientist
IAE	Arthur L. Fajardo, Delfin C. Su- ministrado, Engelbert K. Peralta, Pepito M. Bato, Eduardo P. Pan- ingbatan	Effect of Blade Shape and Shaft Speed on the Performance of a Tilling Wheel of Float-Assisted Tillers	ISI Journal: Philippine Agricultural Scientist, 98: 73-80
IAE	Mona Liza F. Delos Reyes, Bart Schultz, Krishna Prasad	Assessment of the process, nature and impact of rehabilitation for the development of modernization strategy for the national irrigation systems in the Philippines	Irrigation and Drain- age Journal, 64: 464– 478

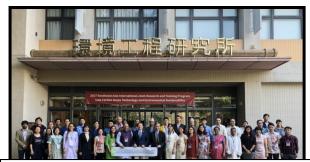
	2015		
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION DETAILS
DChE	Ramer P. Bautista, Jovita L. Movillon, Susana M. Mercado, Rex B. Demafe- lis, Moises A. Dorado, Manolito E. Bambase, Jr. and Jewel A. Capunitan	Effect of Thermal Treatment on the Disinfection of Infectious Waste by Fry-Drying Using Vegetable Oil	Journal of Environ- mental Science and Management 18(2)
DChE	Rex B. Demafelis, AJ Alcantara, Jovita L. Movillon, Enrique P. Pac- ardo, Maria Victoria O. Espaldon, and Maxima E. Flavier, and Bernadette D Tongko	Carbon Emission Reduction and Payback Analyses of a Commer- cial Scale Bioethanol Processing Plant using Sugarcane (Saccharum officinarum L.)	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Jeanne Michelle T. Valencia, Rex B. Demafelis, Myra G. Borines, Kristel M. Gatdula	Bioethanol Potential of Brown Macroalgae (Sargassum spp.)	Philippine Journal of Crop Science Vol. 40(2): 1-11
DChE	Rex B Demafelis, AJ Alcantara, Jovita L. Movillon, Enrique P. Pac- ardo, Maria Victoria O. Espaldon, and Maxima E. Flavier, and Bernadette D. Tongko	Carbon Emission Reduction and Payback Analyses of a Commercial Scale Bioethanol Processing Plant using Sweet Sorghum (Sorghum bicolor L. Moench)	The Crop Science Special Issue Vol 40
DChE	R.G. Saman Wijesekara, Catalino G. Alfafara, and M. Matsumura	Evaluation of bio-acetal as a sustainable alternative jet fuel	J.Natn.Sci.Foundat ion Sri Lanka 2015 43 (2): 165-171
DChE	Butch G. Bataller, Arnold R. Elepano, Moises A. Dorado, Rodrigo B. Badayos, Nelson M. Pampolina, and El Jirie N. Baticados	Estimated Power Potential from Selected Fast-Growing Tree Species in the Philippines	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Milagros R. Martinez-Goss and Rex B. Demafelis	Sensory Evaluation of Some Food Preparations with Nostoc commune Vaucher (Cyanobacteria)	The Philippine Scientist, University of San Carlos Press ISSN 0079-1466
DChE	Rina B. Opulencia, Manolito E. Bambase Jr., KMD Perdigon, Rex B. Demafelis, AA Llamado, RAG Franco, RT Mogul, and AK Raymundo	Copper-resistant, biofilm-forming bacteria for potential use in rehabilitation of coppercontaminated wastewater	International Jour- nal of Philippine Science and Tech- nology Vol. 08, No. 2, 2015 XX
DChE	Arnold R. Elepano, Rex B. Demafelis, Moises A. Dorado, Butch G. Bataller, Rodrigo B. Badayos, Nelson M. Pampolina, El Jirie N. Baticados, and Kristel M. Gatdula	Potential Bioenergy Production from Major Agricultural Residues in the Philippines	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Myra G. Borines, Jovita L. Movillon, Arnold S. Pajarillo, Ariane Rodeth C. Bernal, Justine Allen S. Malabuyoc and El Jirie N. Baticados	Parametric Study of Sweet Sorghum (Sorghum bicolor L. Moench) Juice Extraction Using a 6-Roller Mill	Philippine Journal of Crop Science (PJCS), Vol. 40, Issue No. 4, Spe- cial Issue
DChE	Sharona Q. Barroga, Francisco B. Elegado, EV Carpio, El Jirie N. Baticados, FRC Icao, and Kristel M Gatdula	Development of a Village-Scale Evaporation System for Sweet Sorghum Syrup Production	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Donna Wren B. Libunao, AJ Alcantara, Manolito E. Bambase Jr., and Lisa Stephanie H. Dizon	Parametric Study of Biodiesel Production from Palm Oil via Base-Catalyzed Transesterifica- tion	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Manolito E. Bambase Jr, Rex B. Demafelis, Myra G. Borines, Kristel M. Gatdula, Arianne Joy A. Alquiros, and Gizelle Eliza A. Atienza	Ethanol Production from Mannitol of Sargassum using Saccharomyces cerevisiae 2055	Philippine Journal of Crop Science Special Issue Vol 40
DChE	Roberto F. Rañola Jr, Rex B. Demafelis, Jovita L. Movillon, and Maria Katrina R. Punto	Perceptions and Realities: A Survey of Knowledge, Attitude and Practices of Biofuel Con- sumers in Selected Areas in the Philippines	Philippine Journal of Crop Science Special Issue Vol 40

	2015		
DEPARTMENT	AUTHOR(S)	TITLE	PUBLICATION DETAILS
DChE	Rex B. Demafelis, AJ Alcantara, Jovita L. Movillon, EP Pacardo, Maria Victoria O. Espaldon. Maxima E. Flavier, Pamela Joyce M. Eleazar, Bernadette D. Tongko	Comparative Analysis of Sugar- cane and Sweet Sorghum Bio- ethanol Carbon Footprint, Car- bon Saving and Carbon Debt Payback Period	Phil Journal of Crop Science Vol. 40 (3):10-22
DChE	Jovita L. Movillon, Domingo E. Angeles, Emmanuel G. Samson, Raisa Aone M. Cabahug, Anthony B. Obligado and Bernadette D. Tongko	Economic Viability of Sweet Sorghum in Increasing Farmer's Income by Utilizing the Marginal Lands of Panay Region	Philippine Journal of Crop Science (PJCS), Vol. 40, Issue No. 4, Spe- cial Issue
DChE	Jeane Michelle T. Valencia, Rex B. Demafelis, Myra G. Borines, and Kristel M. Gatdula	Bioethanol Potential of Brown Macroalgae (Sargassum spp.)	Philippine Journal of Crop Science Volume 40 No. 2
DChE	Erwin C. Escobar, Ronal R. Navarro, Fidel Rey P. Nayve Jr., Myra G. Borines, and Jey-R S. Ventura	Copper (II) Removal from Industrial Effluent Using a Coagulation -Flocculation Process Employing Rhizobium Extracellular Polysaccharide	Philippine e- Journal for Applied Research and De- velopment 5(2015), 1-10
DChE	Jovita L. Movillon, Rex B. Demafelis, Myra G. Borines, and Kristel M. Gat- dula	Bioethanol Potential of Brown Macroalgae (Sargassum sppp.)	Philippine Journal Crop Science
DCE	Gerald Jericho B. Ronquillo, Marish S. Madlangbayan, Ma. Cristine Con- ception D. Ignacio, Engelbert K. Peralta, Milagros M. Peralta	Morphological and characterization-based verification of the properties of concrete with amorphous nanosilica synthesized from rice hull ash	ISI Refereed Jour- nal: Asia Life Sci- ences
DCE	Marloe B. Sundo, Marish S. Mad- langbayan, and Perlie P. Velasco	Determinants of Employees Acceptance of a Compressed Work Filled Scheme Phase Plant	ISI Publication: Asia Life Sciences
DIE	Ranz C. Ramos, Angelo C. Ani, Stephanie Caridad D.R. Landicho, Haerold Dean Z. Layaoen, Josefa Angelie D. Revilla, Micah A. Rami- rez	Proposed Road Bike Brake Lever Measurements for Filipino Col- lege Women in Mega Manila Area	China- USA Business Review, Vol. 14, No. 12, 628-636
DIE	Josefa Angelie Revilla, Leianne Casupang, Iris Ann Martinez, and Ma. Laarni Revilla	Determination of Variables that Affect the Remission Rate of Sewing Operations in a Textile Company	Chinese Business Review volume 14
DIE	Haerold Dean Z. Layaoen, Mikel Angelo B. Yap, Romelyn Mae Palo- mar, and Clarissa M. Pesigan	Optimal Handle Grip and Engine Mount Combination for Mini- mized Hand Vibration from Gaso- line Hand Tractors	ISI Journal: Philip- pine Agricultural Scientist
DIE	Josefa Angelie D. Revilla, Mikel Angelo B. Yap, Haerold Dean Z. Layaoen, and Michael John S. Ramos	Baseline Measurement and Analysis of Hand-Arm Transmit- ted Vibration of an Ergonomically Designed Two-Wheel Tractor	ISI Journal: Philip- pine Agricultural Scientist

TECHNOLOGY APPLIED FOR PATENT (PENDING)

PURPOSE	TECHNOLOGY
For Invention Patent	An Apparatus for Removing the Spicule layer of sea Cucumber
	An Apparatus for Drying Sea Cucumber
For Utility Model Patent	An Apparatus for Separating Vermicompost
	Seaweed Dryer
For Industrial Design Patent	Seaweed Dryer

ENHANCED LOCAL AND INTERNATIONAL EXPOSURE FOR STAFF AND STUDENTS



Dr. Myra G. Borines and Asst. Prof Ramon Christian P. Eusebio in the Southeast Asia International Joint-Research and Training Program on Low Carbon Green Energy and Environmental Sustainability; Taiwan



Asst. Prof. Butch Bataller in his laboratory class at the Texas A & M University under the ERDT scholarship



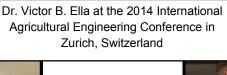
Asst. Prof. Ma. Cristine Concepcion D. Ignacio at 4th Thailand International Nanotechnology Conference; Thailand



Dr. Kevin F. Yaptenco with colleagues on a weekend tour to Monterey, California



Asst. Prof. Adeliza A. Dorado and Asst. Prof. Jasmin Z. Vasquez at the International Conference on Frontiers of Composite Materials 2016; Auckland, New Zealand







Asst. Prof. Christian C. Vaso at the 18th International Conference on Composite Materials and Material Engineering; Tokyo, Japan



Dr. Rossana Marie C. Amongo at Regional Workshop for Research and Academic Institutions on Establishing a Cooperation Mechanism for Human Resource Development on Sustainable Agricultural Mechanization; Nanjing, China

INTERNATIONAL TRAVELS

D.4.T.F		DUDDOOF	
DATE	FACULTY	PURPOSE	TRAVEL DETAILS
10/30– 11/12/17	Myra G. Borines, Ramon Christian P. Eusebio	Participant	Visited National Tsing-Hua University to participate in the Southeast Asia International Joint-Research and Training Program on Low Carbon Green Energy and Environmental Sustainability
10-23– 10/31/17	Rossana Marie C. Amongo	participant	Presented paper during the Regional Training on Effective Utilization of Pesticides and Plant Protection Equipment in Asian Countries; Nanjing, China
10/23/17 11/02/17	Christian C. Vaso	Study Tour	Studied Integrated River Engineering Work; Advanced Technique on Flood control, Water supply and Aquatic Environment for Megacity at Tokyo, Japan
10/12/17– 10/18/17	Adrian Augusto M. Sumalde	Participant	Attended the 2017 International Society for Southeast Asian Agricultural Sciences at Hanoi, Vietnam
10/09/17- 101/31/18	John Paulo A. Remoso	Research fellow	Visited UC Berkeley for the PCARI– DEVICE
10/05/17— 10/15/17	Monaliza F. Delos Reyes	Participant/ presentor	Attended the 23rd International Commission on Irrigation and Drainage (ICID) Congress and 68th International Executive Council meeting at Mexico City, Mexico
09/24/17- 09/30/17	Arnold R. Elepaño	Resource person	Presented paper at Asian Productivity Organization's Workshop on Advanced Farm Mechanization at Hyderabad, India
09/14/17— 09/18/17	Aurelio A.Delos Reyes Jr. and Romulo E. Eusebio	participants	Attended the Prince Valiant International Corporation and Focus Applied Technologies Dynamometers Training at the manufacturer's facility; Jalan Jawi Indah, Penang, Malaysia
09/11/17— 09/16/17	Fatima Joy J. Raytana and Conrad Ian S. Tan	participants	3rd Training of Trainers of the Asian and Pacific Network for Testing of Agricultural Machinery (ANTAM) on Rice Transplanters; Nanning, China
09/09/17- 09/14/17	Rex B. Demafelis	Participant	Visited Masaryk University to attend the Erasmus+ Project SPIRE workshop on "strategic IP Management for Effective R&I in Asian Higher Education
08/25/17– 09/08/17	Micah A. Ramirez	study tour	Attended the 2017 Summer School at the Graduate School of Design, Kyushu University in Fukuoka, Japan
08/18/17- 08/29/17	Victor B. Ella, Maurice A. Duka, Jeffrey A. Gonzales	visitor	Visited the laboratories of UC Berkeley as part of the activities of CHED- PCARI project
08/10– 08/12/17	Rossana Marie C. Amongo	Participant/ speaker	Plenary Speaker and presented paper during the International Seminar on Strengthening Food Security, Feed and Energy Sustainably to Enhance Competitiveness hosted by the ABED, Faculty of Agriculture, Bandar, Lampung Indonesia
08/09/17– 09/13/17	Rossana Marie C. Amongo	Participant/ speaker	Attended Indonesian Society of Agricultural Engineering International Seminar (ISAE IS); Bandar, Lampung, Indonesia
07/24/17— 09/25/17	Roger A. Luyun	Research Fellow	Attended the 2017 JASSO Follow-up Research Fellowship at the United Graduate School of Agricultural Sciences in Japan
07/23/17— 07/29/17	Lisa Stephanie H. Dizon Kristel M. Gatdula, Ramer Bautista	participant	Attended the GC-MS training in Singapore sponsored by Shi- madzu Philippines Corporation
07/16/17- 07/23/17	Lizbeth A. Mariano	participant	Attended the 8th International Conference on Applied Human Factors and Ergonomics at LA, California, USA
06/12/17- 07/21/17	Jeffrey A. Gonzales	Exhange Program	Participated in a short term exchange program with some students at Tokyo Metropolitan University
05/23/17- 05/28/17	Darwin C. Aranguren and Romulo E. Eusebio	Technical Working Group member	Attended the 3rd Meeting of the Technical Working Groups (TWG) of the Asian and Pacific Network for Testing Agricultural Machinery (ANTAM), UNESCAP-CSAM at Dhaka, Bangladesh
05/21/17- 05/26/17	Victor A. Rodulfo, Jr.	Team leader	ASEAN Study Tour held at Malaysia and Indonesia
04/30/17- 05/07/17	Roger A. Luyun, Jr. and Arthur L. Fajardo	Study Tour	Studied Groundwater Management focusing on Aquifer Storage and Recovery and Managed Aquifer Recharge Project: Policy Study towards Effective Groundwater Management for Sustainable Agriculture at Adelaide, South Australia

DATE	FACULTY	PURPOSE	TRAVEL DETAILS
04/13/17- 04/15/17	Rossana Marie C. Amongo	participant	Attended the Regional Workshop for Research and Academic Institution on Establishing a Cooperation Mechanism for Human Resource Development on Sustainable Agricultural Mechanization at Nanjing, China
03/21/17– 03/31/17	Rex B. Demafelis	Academic visit	Visited Michigan State University (MSU) and University of Minnesota (UM) to discuss tripartite collaboration and to collaborative RDE programs on food security, climate change and water security
03/14/17– 03/18/17	Vicente G. Ballaran, Jr.	resource speaker	Attended the "Improvement of Agricultural livelihoods and Resilience for Conflict Affected Communities in Ethic Minority Areas-OSRO/MYA/1601/JPN" at Yango, Myanmar
03/13/17– 03/17/17	Karen-Christian C. Agno	participant	Participated in the UP Faculty Professional Advancement in Southern Taiwan University Alliance at Kaohsiung, Taiwan
03/09/17– 03/14/17	Denise Ester O. Santiago	Presentor	Presented a paper in the 2017 International Conference on Key Engineering Materials (ICKEM 2017) in Penang, Malaysia
02/26/17— 03/06/17	Romulo E. Eusebio, Jasper C. Aliangan, and Jerry T. Castillo	Test Engineers and Laboratory Technician	Tested agriculture and implements in China sponsored by the Hebei Light Industrial Products
02/26/17- 03/04/17	Alexis C. Del Rosario	participant	Attended the 3 rd Introductory Workshop on Ethanol Production from Cassava and AgBio 2017 at BITEC, Bangna, Bangkok, Thailand
01/09/17- 01/20/17	Amabelle A. Pector	participant	Attended the PCIEERD Engineers and Technicians R&D Facilities and Equipment Repair, Maintenance, and Troubleshooting Training Workshop; Sungkyunkwan University, Suwon, Seoul, South Korea
12/07/16— 12/11/16	Aurelio A. Delos Reyes Jr. and Romulo E. Eusebio	Focal Point and Technical Expert	Attended the 3 rd ANTAM Annual Meeting, Sponsored by UNESCAP-CSAM and Sri Lanka DA; Negombo, Sri Lanka
11/30/16- 12/04/16	ANR, Victor A. Rodulfo Jr., Marife R. Santiago, and Marie Jehosa B. Reyes, PHILMech Staff, and PCAF Staff	researchers	Participated in the benchmarking with ASEAN Country (Vietnam) on Engine Manufacturing and Assembly in the project entitled Policy Study in Support to Local Assembly/Manufacturing of Single Cylinder Engine for the agri-fisheries sector; Dong Nam Province, Vietnam
11/23– 11/25/16	Rossana Marie C. Amongo	participant	Presented paper during the 4th Regional Forum on Sustainable Agricultural Mechanization in Asia and the Pacific: "Leading the Way for Climate-Smart Agriculture through Machinery and Practices". Hanoi, Vietnam
10/25/16- 10/28/16	Victor A. Rodulfo Jr., Arthur L. Fajardo, and Apple E. Llarena	participants	Attended the China International Agricultural Machinery Exhibition 2016; Wuhan, China
10/17/16– 10/30/16	Romulo E. Eusebio and Jasper C. Aliangan	participants	Attended the 2nd Training of Trainers on ANTAM Test Codes; Nanjing, China
08/26/16— 09/09/16	Clarissa M. Pesigan	participant	Attended the 2016 Human Science Summer School of Kyushu University, Fukuoka, Japan
07/25/16- 07/29/16	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, and Gerlie Nelle L. Lalap	researchers	Participated in the benchmarking Activity for the project Operational Policy on the Development of the Phil. Agricultural and Fisheries Mechanization Index; Klongluang District, Pathumthani, Thailand
07/18/16 & 07/23/16	Rossana Marie C. Amongo, Maria Victoria L. Larona, Mark Keylord S. Onal, and Clarissa Ilyana L. Ilao	researchers	Participated in the benchmarking Activity for the project Operational Policy on the Development of the Philippine Agricultural and Fisheries Mechanization Index; Hochimin, Vietnam

DATE	FACULTY	PURPOSE	TRAVEL DETAILS
06/28/16– 07/27/16	Rex B. Demafelis	visitor	Visited US and Canada to gather data related to carbon tax policies and agenda
05/12/16- 05/24/16	Denise Ester O. Santiago	Visiting Research Scholar	Attended the Case Western Reserve University for training related to PhD dissertation; Cleveland, Ohio, USA
05/09/16- 05/13/16	Darwin C. Aranguren	TWG Mem- ber	Attended the 2 nd ANTAM Power Tiller TWG Meeting to standardize test codes and procedures for power tillers in Asia and the Pacific; Bangkok, Thailand
05/03/16- 05/04/16	Rossana Marie C. Amongo	Technical Resource Person	Attended the Workshop on Business Management of Custom Hiring Services for Agricultural Machinery in the Dry Zone of Myanmar; Hotel Hazel, Mandalay, Myanmar
03/28/16— 03/30/16	Rossana Marie C. Amongo	participant/ facilitator	Attended the Inception Workshop on the Regional Data Base of Agricultural Mechanization in Asia and the Pacific; Putrajaya, Malaysia
03/11/16- 03/15/16	Denise Ester O. Santiago	participant	Attended the ICKEM 2016 Conference; Cosmopolitan Hotel, Wan Chai, Hongkong, China.
02/22/16— 02/26/16	Kevin F. Yaptenco and Ronel S. Pangan	participants	Attended the Aquaculture 2016; Las Vegas, Nevada, USA
12/03/15– 12/05/15	Aurelio A. Delos Reyes Jr.	delegate and Philippine focal point	Attended the 2nd Annual Meeting of the Asian and Pacific Network for Testing of Agricultural Machinery (ANTAM); Indian Council for Agricultural Research (ICAR), New Delhi, India
12/01/15	Rossana Marie C. Amongo	resource speaker and technical expert	Attended the Knowledge Sharing Workshop on the Enabling Environment for Custom Hiring of Agricultural Machinery in the Dry Zone of Myan- mar; Hotel Hazel, Mandalay Myanmar
11/16– 11/20/15	Rossana Marie C. Amongo	presentor	Presented paper during the 10th CSAM TC and Regional Forum on the establishment of Re- gional Database on Agricultural Mechanization in Asia and the Pacific held in Siem Reap, Cam- bodia
10/15– 10/17/15	Rossana Marie C. Amongo	presentor	Presented paper during the ASEAN Universities Consortium on Food and Agro-based Engineering &Technology Conference & 1st International AUCFA Student Seminar held in IPM, Bogor, Indonesia
09/14/15- 09/18/15	Arthur L. Fajardo	participant	Attended the 20 th International Soil Tillage Research Organization (ISTRO) Conference; Shijiyuan International Conference Center, Nanjing, P.R. China
08/26/15– 08/28/15	Rossana Marie C. Amongo	participant	Attended as TWG member in the Orientation Meeting of the CSAM projects for the dryzone of Myanmar
06/29/15– 07/17/15	Joan Cecilia C. Casila	participant	Attended the training on "Watershed and River Basin Management"; UNESCO-IHE Delft, Netherlands
06/15/15– 06/17/15	Ronaldo B. Saludes and Roger A. Luyun Jr.	participants	Attended the Training on Soil and Water Management Strategies for Adapting Cropping Systems to Changing Climate; Colorado State University
05/17/15— 06/01/15	Rex B. Demafelis	special detail	Conducted technical visits on facilities on conversion of saccharine feedstocks into high-value products in US and Canada
11/08/14— 11/18/14	Marvin L. Samaniego	participant	Attended the Environmental Protection and Green Technology Workshop; National Tsing Hua University, Taiwan
09/26/14— 10/13/14	Rex B. Demafelis	special detail	Visited research and production facilities using thermo501 chemical processes in Canada

DELIVERY OF TECHNICAL ASSISTANCE

PERSONNEL INVOLVED	TYPE OF TECHNICAL ASSISTANCE
Rex B. Demafelis	UPLB Vice Chancellor for Research and Extension (2014-2017) Chair, UPLB Sugar Industry Development Program Chair of the UPLB-USAID STRIDE Committee
Marish S. Madlangbayan	UPLB Vice Chancellor for Planning and Development (2014-2017) Member, Technical Panel of PCIEERD for the projects under the Smart Textiles Program and proposals on Abaca Composites
Myra G. Borines	Member, UPLB-USAID STRIDE Committee
Rossana Marie C. Amongo	BAC Infra Chair BACS Member, UPLB Institutional Self-Assessment Writing Committee Member, Task Force on the Procurement of Agricultural and Fishery Equipment, DA Member, Task Force on the identification of PAES development and updating, BAFE-DA Member, Task Force on Crafting the NAFMP of RA 10601, BAFE-DA Member, TWG on the Development of PNS for various agricultural machinery, BAFS-DA Member, Testing and Evaluation Accreditation Advisory Committee, BAFE- DA Member, TWG on Training & Extension Agriculture & Fishery Mechanization Com, PCAF-DA Member, Agriculture & Fishery Committee (Mother Committee), PCAF-DA Member, Policy Advocacy & Institutional Development & Linkages - PGPC Consortium, PGPC-DA Member, Technical Committee on Agricultural and Biosystems Engineering, CHED Member, Philippine Qualifications Framework- National Coordination Commmittee (PQF- NCC) Technical Working Group (TWG) on Piloting the Agricultural Engineering discipline, CHED CSAM Regional Database Focal Person, CSAM-UN-ESCAP
Kevin F. Yaptenco, Fernando O. Paras Jr. Aurelio A. Delos Reyes Jr.	Members of the TWG for (a) Development of PNS for Coffee and Cacao Grinder, (b) Development of PNS for Mungbean Thresher
Rossana Marie C. Amongo Engelbert K. Peralta Kevin F. Yaptenco Fernando O. Paras, Jr.	Members, GS AdHoc Committee for the drafting of the MS Materials and Nano Science
Maria Morissa D. Lu Ariel U. Glorioso	Members, BAC TWG of BAC Infra.
Marloe B. Sundo	Director of the University Property Maintenance Office (UPMO)
Arthur L. Fajardo	Vice-Chair, BAC Infra
Casiano S. Abrigo Jr.	UPLBFI Executive Director
Dr. Jey-R S. Ventura	Member, Editorial board of the Philippine e-Journal for Applied Research and Development

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PERSONNEL INVOLVED	TYPE OF TECHNICAL ASSISTANCE
Arsenio N. Resureccion	Chair, Technical Committee in Engineering, CHED Member, Technical Panel for Engineering and Technology (TPET)
Ronel S. Pangan	Member, Task Force to undertake the Activities on the Promulgation of a National Guidelines and Procedures for the Registration and Collection of Fees of Agricultural & Fishery Machinery & Equipment
Jewel A. Capunitan	Member, UPLB Occupational Health and Safety Standards Committee and UPLB Pool of Research and Extension Evaluators Co-Chair of the UPLB-USAID STRIDE Committee
Manolito E. Bambase Jr.	Member, University Steering Committee for UPLB- DOST Technology Business Incubator
Jovita L. Movillon Myra G. Borines	Members, UPLB Sugar Industry Development Program

DEPARTMENT	PERSONNEL INVOLVED	TYPE OF TECHNICAL ASSISTANCE	DURATION
IAE	Rossana Marie C. Amongo	Member, Technical Committee for Agricultural Engineering CHED Chair, BAC Member, SIDA Program Commit- tee on Farm Mechanization	4 April- 31 Dec 2016 1 Feb- 31 Dec 2015 14 Jan- 14 Feb 2016
IAE	Delfin C. Suministrado	Member, UPLB Academic Person- nel and Fellowship Committee	Sep- Dec 2015
IAE	Victor B. Ella	SEARCA Regional Professorial Chair	Apr 2015- Apr 2016
IAE	Fernando O. Paras Jr.	Co-Chair, BAC Infra	1 Feb- 31 Dec 2015
IAE	Alexis C. del Rosario	Provisional member, BAC Regular	01 Feb- 31 Dec 2015
IAE	Alexander A. Blastique Mark Keylord.S. Onal	Members, TWG-BAC Infra	1 February- 31 Dec 2015 25 Sep 2014- 31 Dec 2014
DCE	Kimjay M. Lamar	PDA of UPLB-ITC	5 Jan- 31 July 2015
DEE	Kim Jay R. Rosano, Athena P. Lavega, Adrian Augusto M. Sumalde, Elvin D. Dulce	Members of Energy Conservation Committee and UPLB Power Sup- ply Monitoring	2 June- 31 Dec 2017
DEE	Adrian R. Quicoy John Paolo A. Ramoso Benjamin Jonas V. Beltran	Members, TWG for BAC-Infra who will assist BAC Infra in the technical evaluation of specs for Infrastructure projects	25 Sep 2014- 31 Dec 2014
AMTEC	Romulo E. Eusebio	Member, Asian and Pacific Net- work for Testing of Agricultural Ma- chinery (ANTAM) Technical Work- ing Group (TWG)	25 May 2016

DISTINGUISHED FACULTY AWARDS



CEAT Outstanding Senior Faculty Award

YEAR	NAME
2017	Rossana Marie C. Amongo
2016	Victor B. Ella
2015	Kevin F. Yaptenco

CEAT Outstanding Junior Faculty Award

YEAR	NAME	
2017	Josefa Angelie D. Revilla	
2016	Ma. Cristine Concepcion D. Ignacio	
2015	Ralph Kristoffer B. Gallegos, Micah Ramirez	

NAST Outstanding Publication Award

YEAR	NAME
2015	Butch G. Bataller Rex B. Demafelis Lisa Stephanie H. Dizon Denise Ester O. Santiago

Palarong UPLB

AWARDEE	AWARD DETAILS
CEAT Royal White	Overall Champion, 2015 Palarong UPLB First Place, 2016 Palarong UPLB

Loyalty Awardees

YEAR		NAME
2017	Catalino G. Alfafara	Rosa B. Delos Reyes
	Arthur L. Fajardo	Ariel U. Glorioso
	Annie Liza C. Pintor	Engelbert K. Peralta
	Ronald B. Saludes	Delfin C. Suministrado
	Jeanne Michelle T. Valencia	
2016	Myra G. Borines	Arnold R. Elepaño
	Ma. Cristine Concepcion D. Ignacio	Haerold Dean Z. Layaoen
	Maria Morissa D. Lu	
2015	Vicente G. Ballaran, Jr.	Marilyn C. del Barrio
	Rex B. Demafelis	Monet Ceoncepcion M. Detras
	Marloe B. Sundo	Paul Michael O. Tarnate

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International Publication Award (UP System)

YEAR	NA	ME
2016	El Jirie N. Baticados Rex B. Demafelis Klarenz A.Hourani Jovita L. Movillon	Butch G. Bataller Myra G. Borines Pamela Joyce Eleazar Haerold Dean Z. Layaoen Francis Mulimbayan Denise Ester O. Santiago
2015	Rex B. Demafelis Arnold R. Elepaño Ma. Cristine Concepcion D. Ignacio Engelbert K. Peralta	Jessie C. Elauria Arthur L. Fajardo Jovita L. Movillon
2014	Julius Rhoan T. Lustro	

Other Awards and Recognition

DEPARTMENT	FACULTY	AWARD DETAILS
IAE	Victor B. Ella	UP Scientist II (2015-2017)
IAE	Rossana Marie C. Amongo	2016 Wisemen Awardee on Research and Education (UP SAGES) Plaque of Appreciation, Uplifting the Agricultural Engineering Profession in International Arena Plaque of Recognition, Uplifting the Agricultural Engineering Profession in International Arena, DA-PCAF-AFMech
IAE	Roger A. Luyun Jr.	2014 Visiting Professor Award, Kagoshima University
DChE	Jovita L. Movillon	2017 the One UP Professorial for Instruction and Research/ Research and Public Service 2014 Achievement Award for teaching Kapisanang Kimika ng Pilipinas-Southern Tagalog Chapter
DChE	Rex B. Demafelis	2017 the One UP Professorial for Instruction and Research/ Research and Public Service 2017 Continuous Operational and Outcomes-based Partnership for Excellence in Research and Academic Training Enhancement (COOPERATE) 2015 Manila Water Foundation Prize for Engineering Excellence award (DOST and Manila Water Foundation)
DChE	Lisa Stephanie H. Dizon	2017 Continuous Operational and Outcomes-based Partnership for Excellence in Research and Academic Training Enhancement (COOPERATE)
DChE	Butch G. Bataller	2015 UPLB Academic Excellence Award
DEE	Melvin C. Ilang-ilang	2015 Smart Sweep Innovation and Excellence Award (Top 10 qualifiers), Smart Telecommunications
DEE	Karen-Christian C. Agno	Master of Energy with Second Class Honors Second Division, University of Auckland, New Zealand, September 29, 2015
DEE	Adrian Augusto M. Sumalde	2015 Competent Communicator Award (Toastmasters International) 3 rd place, Toastmasters International Speech Contest, Global City 1 st place, Toastmasters International Speech Contest, IRRI-Area Level 1 st place, Toastmasters International Speech Contest, Los Baños Chapter
DIE	Josefa Angelie D. Revilla (asst. coach) Diana Marie de Silva	UPLB Basketball Women's Team (faculty), Winner against CLSU (dual meet)
DIE	Angelo C. Ani	Best Coach, Legal Minds IX

NAME	AWARD DETAILS
E.C. Suñaz, Rossana Marie C.	1 st Best Technical Paper
Amongo, Delfin C. Suminis- trado, Fernando O. Paras, Jr., and P.G. Fernandez	"Development of a Honey Extracting Machine for Stingless Bees (Tetragonula Spp.)"
	Agricultural Power, Machinery and Mechanization category, 12th International AE Conference and the 65th PSAE National Conference
Manalastas and Delfin C. Suministrado	3 rd Best Technical Paper
	Agricultural Power, Machinery and Mechanization category, 12 th International AE Conference and the 65th PSAE National Conference
Kevin F. Yaptenco, Ronel S.	1 st Best Technical Paper
Pangan, and Sharmaine N. Pardua	"Design and Development of an Appropriate Processing Technology for Sea Cucumber"
	Agricultural Processing category, 12th International AE Conference and the 65th PSAE National Conference
Kevin F. Yaptenco, Ronel S.	1 st Best Poster Paper
Pangan, Sharmaine N. Pardua, and. Jonnel Andrew C. Duque	"Improving the Quality of Sea Cucumber Products through the Development of Appropriate Processing Technology"
	Agricultural Processing category, 12th International AE Conference and the 65th PSAE National Conference,
Roger A. Luyun Jr., Joan Cecilia	1 st Best Technical Paper
C. Casila, Rosa B. de los Reyes, Maurice A. Duka, and B.P. Tamayo Jr.	"Determination of Conveyance and Application Losses in Division 1 of the Upper Pampanga River integrated Irrigation System (UPRIIS)"
D ramayo or.	Soil and Water Management category, 12 th International AE Conference and the 65th PSAE National Conference,
Ronaldo B. Saludes, Moises A.	2 nd Best Technical Paper
Dorado, M.L. Manalo, and K.J.L. Millare	"Growth and Nutrient Content of Hydroponic Corn Forage under different Colored Shade Nets"
	Soil and Water Resources category, 12th International AE Conference and the 65th PSAE National Conference,
Rossana Marie C. Amongo,	1 st Best Poster Paper
Mark Keylord S. Onal, Ronel S. Pangan, and B.C. Geronimo	"Design of Savonius Windmill for Water Pumping in PFSI Training Center, Pililla, Rizal"
	Renewable Energy category, 12th International AE Conference and the 65th PSAE National Conference
Fernando O. Paras, Jr., Ros-	3 rd Best Poster Paper
sana Marie C. Amongo, Ralph Kristoffer B. Gallegos, Omar F.Zubia, R.P. Escobin, Lizbeth	"Optimization of Soybean Roasting for Animal Feeds: The UPLB Bean Roaster."
A. Mariano, and J.B.C. Alamo	Renewable Energy category, 12th International AE Conference and the 65th PSAE National Conference,
Erwin P. Quilloy et al	2 nd Best Poster
	"Design, Development, and Calibration of an Arduino-Based Soil Moisture Measuring System"
	Soil Water & Aquaculture category, 66 th Annual PSAE Convention
Roger A. Luyun Jr., Sandoval &	3 rd Best Paper
Fumera	"Technical Evaluation of Communal Irrigation Systems"
	Soil, Water & Aquaculture category, 66 th Annual PSAE Convention
Ronel S. Pangan, Kevin F. Yaptenco, EJeremy Deanon, and	2 nd Best Paper Presentation
Jonnel Duque	"Design, Development, and Calibration of an Arduino-Based Soil Moisture Measuring System"
	Agricultural Processing Structure & Electrification category, 66 th Annual PSAE Convention
Fernando O. Paras Jr., SKL	3 rd Best Paper
Borja, JM Samaniego, CL Khan, EA Albacea, DM Macandog	Technical Paper Competition, PSAE Convention

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NAME	AWARD DETAILS
Freddie Rick L. Ramos, Arthur	1 st Place Poster Paper and Best Paper
L. Fajardo, Romulo E. Eusebio	67th Philippine Society of Agricultural Engineers (PSAE) Annual National Convention, and the 28th Agricultural Engineering Week
Michael Vincent Laurio, Catalino G. Alfafara	2 nd Best Technical Research Paper
S. 7 maidra	Philippine Institute of Chemical Engineers, Boracay Ecovillage, Aklan, February 19, 2016.
Michael M. Duldulao, Victor A. Rodulfo, Jr., Delfin C. Suministrado, Rossana Marie C. Amongo, and EPLozada	3 rd Best Poster Paper Design and Development of Basic Mechanization for Motorized Dehusker Machine 14 th International Conference and 67 th PSAE Annual National Convention
Rossana Marie C. Amongo, Fernando O. Paras, Jr., Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Rosa B. Delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo Jr., Mark Daniel G. Estrada, and Ronnie C. Valencia	1st Best Paper Technical Paper Competition, 14 th International Conference and 67 th PSAE Annual National Convention, April 25-27, 2017, Legazpi City, Albay, Bicol Region
Rossana Marie C. Amongo, Fernando O. Paras, Jr., Kevin F. Yaptenco, Ronaldo B. Saludes, Maria Victoria L. Larona, Rosa B. Delos Reyes, Marion Lux Y. Castro, Jose D. De Ramos, Ronel S. Pangan, Victor A. Rodulfo, Jr., Mark Daniel G. Estrada, Ronnie C. Valencia	Best Paper, <i>Diffusion and Utilization of UPLB Corn Mechanization Technologies</i> For Food Security, 14 th International Conference and 67 th PSAE Annual National Convention 2 nd Placer Best Poster Paper, Enhancing Productivity through the Introduction and Utilization of Corn Production Technologies and Knowledge Systems for Food Security, NAFES-CHED

STAFF AND ALUMNI AWARDS

CEAT OUSTANDING OFFICE SUPERVISOR		
2016	Leonor B. Ramos	
CEAT OUSTANDING OFFICE PERSONNEL		
2017	Loyola A. Lantican	
2016	Rodora S. Calibo	
2015	Rodel A. Deriquito	
CEAT OUSTANDING BLUE COLLARED EMPLOYEE		
2017	Gregorio L. Aquino, Jr.	
2016	Ramir C. Gonzales	
CEA	T OUSTANDING TECHNICIAN	
2017	Rodel A. Deriquito	
2016	Alberto R. Gutierrez	
CEAT OUSTANDING RESEARCHER		
2016	Maria Victoria L. Larona	
CEAT OUSTANDING PROFESSIONAL		
2017	Victor A. Rodulfo, Jr.	
2016	Ronel S. Pangan	
2015	Romulo Eusebio	



CEAT Loyalty Awardees

YEAR		NAME(S)	
2017	Elvira B. Almanza Rodora S. Calibo Annaliza D. Manuel Jaspher Pandaraoan Rodolfo A. Ramos Marife R. Santiago	Gregorio L. Aquino, Jr. Ramir C. Gonzales Archimedes L. Marasigan Ronel S. Pangan Rennie R. Repoldo	Mario C. Bueno Arturo L. Macandili Marivic L. Mendoza Leonor B. Ramos Victor A. Rodulfo, Jr.
2016	Analy SA. Bautista Sofio M. Eusebio Jonathan C. Orozco Hector R. Ramos	Edgardo V. Casas+ Maria Victoria L. Larona Mirna Antonia D Punzalan Antonia L. Sarino	Rodel A. Deriquito Nicasio V. Medialda+
2015	Marcelo P. Almanza Estanislao S. Caracuel Alexis C. del Rosario Jose E. Lapitan Sophie L. Merin Rennie R. Repoldo	Connie C. Angeles Marites M. Castro Reynaldo C. Gallega Juan M. Lumitao Dante M. Nonzares	Nicolas N. Bea Mamerto C. Celestial Numeriano R. Gibe Crispino P. Marasigan Mila A. Reblora

CEAT Distinguished Young Alumni Alumna

DEPARTMENT	DATE	NAME(S)
AGRICULTURAL ENGINEERING	2017	Mervin M. Manalili
	2016	Joseph M. Sandro
	2015	Roger Jay L. De Vela
CHEMICAL ENGINEERING	2017	Alvin E. Valdeabella
	2016	Grace Nisola-Calpo
	2015	Albert A. Samuela
CIVIL	2017	Perlie P. Velasco
ENGINEERING	2016	Ginghis B. Maranan
	2015	Paul John Ross L. Narciso
ELECTRICAL ENGINEERING	2017	Mark Idol C. Marcelo
	2016	Marcial Brummel J. Jimenez
	2015	Adrian Augusto M. Sumalde
INDUSTRIAL ENGINEERING	2017	Daryll A. Prudencio
	2016	Kristianne A. Mercado
	2015	Haerold Dean Z. Layaoen

AWARDEE	AWARD DETAILS
Alvin James Asaytono	1st Place, 2015 Ramon Magsaysay Future Engineers/Technologists
	Competition- NAST
Apollo C. Arquiza	2014 CEAT-UPAA Distinguished Alumnus
	2015 CEAT- UPAA Outstanding UPLB Alumni Award for Advanced Life Support En-
	gineering Research for Space Missions award
Fernando H. Corpuz	2015 CEAT- UPAA Distinguished Alumnus in Government Management of the Sug-
	arcane Industry Research, Development and Extension
Oscar L. Cortes	2015 CEAT- UPAA Distinguished Alumnus in Sugarcane Industry Policy Develop-
	ment award
Albert A. Samuela	2015 CEAT- UPAA Distinguished Chemical Engineering Young Alumnus
Bernadette D. Tongko	2016 International Publication Award (UP System)
Ronel S. Pangan	2016 Invention Disclosure Incentive Award (UP System)

College of Engineering and Agro-Industrial Technology SOCIAL EVENTS









SOCIAL EVENTS





2015 CEAT Executive Committee Team Building





2017 CEAT Executive Committee Team Building





2015 CEAT Team Building





2017 CEAT Team Building

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SOCIAL EVENTS

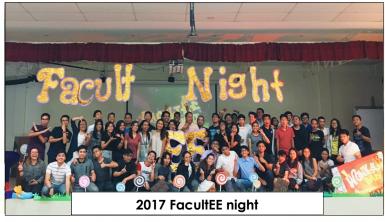














STUDENTS' AWARDS AND PARTICIPATION

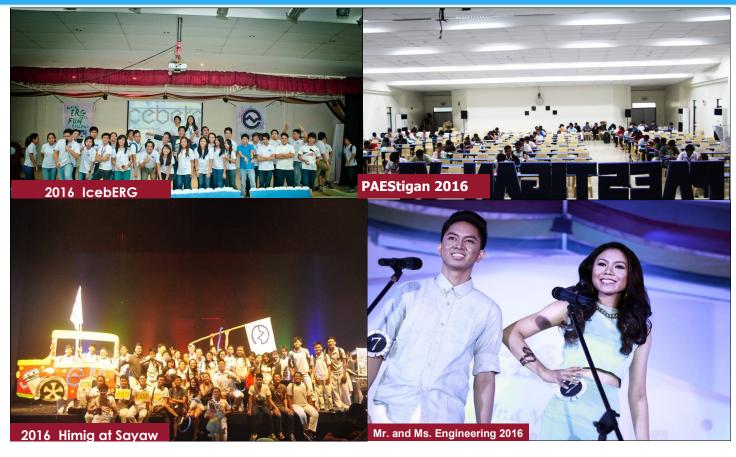


NAME	AWARD DETAILS
CEAT students	Over-all Champion, Palarong UPLB 2014 Over-all Champion, Palarong UPLB 2015 Over-all Champion, Palarong UPLB 2016

AGRICULTURAL ENGINEERING

NAME	AWARD DETAILS
Alphonse Regin Magmanlac, Jose Zalde Samson Jr., Joram Ner Combatir, Neriezza Olap, Czarle- magne Geronimo	3rd Place, AE-mazing Race, PSAE 2017, Legazpi City, Albay, Bicol Region
Christine Jane Ramacula	1st Place, Miss AElympics 2017, Best in Production, and Miss AElympics 2017, PSAE, Legazpi City, Albay, Bicol Region
Joram Ner Combatir, Neriezza Olap, and Czarlemagne Geronimo	2nd Place, AE Quiz Bee, PSAE 2017, Legazpi City, Albay, Bicol Region
Alphonse Regin Magmanlac	1st Place, Undergraduate Thesis Presentation: Oral Category 3rd Place, Undergraduate Thesis Presentation: Poster Category 2nd Place, CAD Challenge; PSAE 2017, Legazpi City, Albay, Bicol Region
Charles Gunay	Best Undergraduate Thesis Presentation, 66 th Annual PSAE Convention 2016, MMSU Batac, Ilocos Norte
Jose Zaldy Samson	2 nd Runner-Up, Essay Writing Contest, 66 th Annual PSAE Convention, 2016, MMSU Batac, Ilocos Norte
IAE students	2nd Placer, Quiz Contest, Luzon Convention PSAE-PPG National Chapter 2014, CavSU, Indang, Cavite
Von Jansen Comedia and Bryan Baltazar	received plaques and cheques courtesy of UPLBFI for being Board Topnochers in the Agricultural Engineering Board Exam 2014

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CHEMICAL ENGINEERING

NAME	AWARD DETAILS	
Neil Karlo Z. Olegario	2017 BPI- DOST Science Award	
Donn Paul P. Armijo	2017 BPI- DOST Science Award	
John Nikko V. Salvilla	2017 CEAT Best Thesis	
Ma. Charlene C. Tapia	2016 CEAT Class Valedictorian	
Diane Clare M. Tiongco	2016 CEAT Best Thesis Award	
Lara Mae Lumbres	2016 UPLB BPI-DOST Science Award	
John Paul Penuliar	2016 UPLB BPI-DOST Science Award Finalist (Top Six), BPI-DOST Best Project of the Year	
Myrckho Miguell Mendoza, Ruen Rey Sazon, Gabriel Narce, and Marjorie Ocampo	Champion, Inter-University Chemical Engineering Quiz Show 2016, UP Diliman	
Ryan Karlo Madamba	2015 CEAT Best Thesis 1 st Place, 2015 Ramon Magsaysay Future Engineers/Technologists	
Ian Lorenzo Gonzaga	2015 CEAT Valedictorian 2015 BPI-DOST Science Awardee 2 nd Place, 2015 Ramon Magsaysay Future Engineers/Technologists	
Jhun Marc Salvador	2015 BPI-DOST Science Awardee	
Mark Merwin Magboo	2015 BPI-DOST Science Awardee	
Carlo A. Basbas	First Runner-Up, 24 th Philippine Statistics Quiz Provincial Eliminations	

CIVIL ENGINEERING

NAME	AWARD DETAILS
Francis Kenneth P. Cabrera	Champion, PICE Regional CE Quiz Contest
Archimedes Franco	Best Debater Legal Minds 2016 (UPLB SCHEMES)
Archimedes Franco, Jan Renel Duazo, Mark Edison Navas, Patricia Mae Calderon, and Laydee Cel Espinosa	First runner-up, Legal Minds 2016 (UPLB SCHEMES)
Joshua Dimasaka	3 rd placer, PICE Regional Quiz Contest by the PICE Region IV A&B,

NAME	AWARD DETAILS	
Jerome Fabrero	Champion, National CE Quiz (UP ACES)	
Sirven Garibay, Edmond Rocamora and Emel Ken Benito	Champion, National Civil Engineering Quiz by UP ACES, UP Diliman,	
Jerico Tan, Edgardo Jose Reario, and Eriz Joanne Reyes	second runner-up, National Civil Engineering Quiz by UP ACES, UP Diliman	
Gerard Jericho Ronquillo (BS CE Alumnus)	3rd Place, Ramon Magsaysay Future Engineers/Technologiest Competition of NAST	
UPLB- CE students	2nd runner-up, Legal Minds X by UPLB Schemes 4 th place, PICE Siklaban (Regional Inter-Collegiate Sports Fest)	

ELECTRICAL ENGINEERING

NAME	AWARD DETAILS	
Kent Edrian Lozada, Cedric Velandres, and Glen Guray	Champion, Inter-Collegiate Cleanergy Innovation Contest	
Reynaldo Pareja Jr, Roijin Suarez, and Joshua Andre Mendoza	1 st runner-up, Inter-Collegiate Cleanenergy Innovation Contest	
UPLB SELES	Champion, 2017 Himig at Sayaw 1 st runner-up, 2015 Himig at Sayaw	
Drix Piatos, Lucky Nagpala, Mr. Zuriel Jacosalem, and Charles Carandang	Top 10, Smart Sweep Competition by the Smart Telecom	
Rob Christian M. Caduyac	Qualifier, 24 th Philippine Statistics Quiz Provincial Eliminations	
Viktoria Mariae V. Locson	Best Debater award, Legal Minds X	
Davis Mangubat, Karla Janine Capuno, Katrina Marie Ayado and Viktoria Mariae V. Locson	2 nd place award, Legal Minds X: An Inter-Department Engineering Debate	
UPLB ERG	Champion, Himig at Sayaw 2015	

INDUSTRIAL ENGINEERING

NAME	AWARD DETAILS	
Angela Barrera, Michaela Bulaon , Mr. Carlo Adug, Earl Buna, Bernard Croox, Nigel Pantastico, and Franz Velasco	2 nd place, Regional IE Quiz, 7th PIIE Calabarzon Student Congress	
Michaela Bulaon	3rd placer, PIIElipinas Got Talent, 7th PIIE Calabarzon Student Congress	
Renzo Robert Manalo, Erick Louise	5 th place in the National IE Quiz Contest 2016, PIIE	
Sioson, Shara Giezl Estrella, Sarah Jane Sanchez, Karl Andrew Gatdula	2 nd Place, Regional IE Quiz Contest, PIIE Calabarzon Student Chapter	
UPLB IESO	3rd place, Himig at Sayaw 2015	
Jhon Carlo Esmas, Leianne Casupang,	3 rd place, PIIE Inter-university Quiz Contest (National Level), CavSU	
Mark Lester Teodoro, Erick Louise Sioson, Renzo Robert Manalo	3rd Place, PIIE CALABARZON Regional Quiz Contest	
Mr. Julius Alexon Peralta	4th place, Men's Table Tennis, PIIE CALABARZON student chapter	
Jay Asia, Yves Alvin Carolasan, Geraleen Gaytano, Patricia Isabelle Mendoza, Karisse Dianne Oncianian, Julius Alexon Peralta, Jericko Reyes, Kristine Suresca	3rd place, Mixed Volleyball PIIE CALABARZON student chapter	
Faith Masong	4th place, Women's badminton, PIIE CALABARZON student chapter	
Jessa Marie Mojica	4th place, Women's Table Tennis, PIIE CALABARZON student chapter	
Kristina Grace Castillo, Kriziel Casta- neda, Pamella Estabillo and Anne Jeanette Valerio	Winner against CLSU (Dual Meet) Members of the UPLB Basketball Women's Team (students)	

College of Engineering and Agro-Industrial Technology (CEAT) Student Council Activities

Academic Calendar 2017 – 2018

Academic Calendar 2017 – 2018					
Month	Date	Event			
	14	Committee Deliberations and Elections			
MAY	18 to 21	Engineering Science Midyear Petitions			
IVICAT	21 to 27	Midyear 2017 Petitions			
	26	Turnover Ceremony			
	7 to 16	Midyear Registration Assistance			
	11	Term Planning			
	18	Term Planning II			
JUNE	19	Team Building Acitivity			
	22	CEAT Job Fair			
	23	Graduation Testimonials			
	29 to 30	CEAT Team Building Activity			
JULY	15 to 21	Engineering Science 1st Semester Petitions			
JULY TO AUGUST	July 27 to August 3	1st Semester Registration Assistance			
	14	CEAT Freshman Convocation			
AUGUST	19 to 20	CEAT Student Leaders' Grand Challenge III			
	24	Freshman Bloc Assembly			
AUGUST TO SEPTEMBER	August 3 to				
TO SEL TEMBER	September 8	Engineering Science (ES) Paper Drive			
SEPTEMBER	11	Volunteer Corps Orientation			
OCTOBER	3	Power Series Seminar			
	5	Good Morning CEAT			
	11	ES Tutorials			
	8	RUN! Fun Run			
	9	Health Seminar			
NOVEMBER	13	Anti-Hazing Seminar			
	6 to 10	Art Exhibit			
	30	Book Drive			
	8	Volunteer Corps Semester Ender			
DECEMBER	9	Team Building Activity			
	10	Gift Giving			
	11 to 18	2nd Semester Registration Assistance			
JANUARY	22 to 26	Engineering Science Paper Drive			
	22 to 26	Rent			
	1	Volunteer Corps Orientation			
FEBRUARY	12 to 17	February Fair			
	24	High School Career Orientation			
	7	Film Showing			
MARCH	8	Engineering Science Tutorials			
WARCH	15	Alternative Classroom Learninng Experience (ACLE)			
	14	Mr. and Ms. Engmeet Outreach Program			
APRIL	16 and 21	Graduation Photoshoot			
	19	Research/Thesis Seminar			
	30 to 4	Awareness Week			
MAY	26	Team Building Activity			
	20	1 Can bailding Activity			

COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY ANNUAL ACTIVITIES















COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY STUDENTS' ACTIVITIES



SquEEze Ur Mind



Brain Damage



wEEzards High School QuizCon



Graphic and Video Tutorials



AIEM Lecture



Southern Tagalog Industrial Engineering Seminar



2017 Palarong UPLB

COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY STUDENTS' ACTIVITIES



Street Painting



Sports Clinic



2016 SM Invasion



OutrEEch



IESOlympics





2017 NTHU Lecture



2017 ESGYERA

COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY STUDENTS' ACTIVITIES



Career Orientation and Exhibit 2015



Career Orientation and Exhibit 2016





National Youth Congress



Thesis Orientation



Thesis Internship Practicum Preparedness Seminar (TIPPS)



Student- Faculty Meeting



Student Academic Information System (SAIS)
Tutorials

CEAT Publicity Gallery



CEAT website: https://ceat.uplb.edu.ph



Facebook: UPLB College of Engineering and Agro-Industrial Technology



IAE site: https://iae.uplb.edu.ph



DCE site: https://dce.uplb.edu.ph



DES site: https://des.uplb.edu.ph

Being the second biggest college in terms of student population, direct communication and interaction need a lot of time in order to serve all of our students, alumni and visitors. As an answer, we made our own CEAT Social Networking platforms as shown and written above to reach all of them.



CEAT Library: https://ceatlibrary.uplb.edu.ph/



Twitter: @ceatuplb



DChE site: https://dche.uplb.edu.ph



DEE site: https://dee.uplb.edu.ph



DIE site: https://die.uplb.edu.ph

Also, through the Office of Alumni Relations and the CEAT Alumni Association, we keep on monitoring our alumni by updating their information database to track changes and individual progress. We are also using it to reach them whenever we have important events in the college such as the Annual CEAT Foundation Day and CEAT Alumni Homecoming.

COLLEGE OF ENGINEERING AND AGRO-INDUSTRIAL TECHNOLOGY

EXECUTIVE COMMITTEE



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Ms. Marivic L. Mendoza Administrative Officer	Trans	Mr. Ezekiel P. delos Reyes CEAT Student Council President	

IN THE PIPELINE

It is our job as an innovative college to make significant and remarkable steps in order to achieve the goals that we have for CEAT. We have taken actions to address the challenges that are in our hands and we still have a lot of plans to meet our vision of becoming excellent in Engineering Education, Research and Extension that commits to a progressive transformation and global relevance in the Philippine Agriculture and industry.

As we continue our goals and thrusts, we are supporting and aligning our programs to the vision of the Chancellor for the university- to become a leading regional and global university in an environment that sustains 21st century learning, knowledge creation and public service for society and humanity.

We believe that with the harmonious relationship of the college and with the support of our university and trusted partners in the industry, we will reach our goals and vision through our four strategic thrusts.

- I. Broaden Learning Environment
- a. Institution of the syllabus of the BS Mechanical Engineering and BS Materials Engineering Programs
- b. Institution of the syllabus of the MS Electrical Engineering and MS Civil Engineering Programs
- c. Accreditation to the Washington Accord through the Professional Technical Council
- d. Develop technology in pedagogy through the establishment of innovation laboratories
- e. Strengthen the Financial Assistance 'Adopt-a-Student' and 'Study Now, Pay Later' Programs
- II. Improve Research's Training Volume, industry academe linkages, and reputation
- a. Develop appropriate Engineering Industry Research technologies to strengthen academe - industry linkages

- b. Market and brand CEAT to alumni and industry partners
- III. Increased refereed articles in journals
- a. Publish refereed journal articles for every research projects
 - b. Accreditation of PJABE to ISI/SCOPUS
 - c. Apply selected CEAT technology for patent
- IV. Enhanced Local and international exposure for staff and students
- a.Fortify industry immersion programs through the Engineering Industry Research to strengthen academe-industry linkages
- b. Expand international student-exchange program
- c. Disseminate technologies to private partners to strengthen faculty immersion programs

We believe that the expansion of the college's horizon through networking with the government, institutions, agencies and stakeholders will help in strengthening our academeindustry linkages. We have high hopes that our industry partners will help us in making our plans and projects for the college possible; meanwhile we are going to give back by developing technologies that can be useful in their fields and by honing our engineering students with the skills and competencies needed by the industry.

We are progressing towards meeting our vision and mission for the college. We still have works to do but definitely, we are moving forward. We are asking our college constituents to continue pouring your support and cooperation for the college. Let us continue the unity and affirmative action that we have during the past years as we strive for an innovative college that will bring developmental outcomes to our beloved country.

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CEAT Student Council 2017-2018

CEAT Student Organizations: UP Alliance of Chemical Engineering Students, Civil Engineering Executive Organization, The Philippines Civil Engineering Society, UP Engineering Radio Guild – Los Baños, UPLB Engineering Society, UP Engineering Students' Guild, UPLB Industrial Engineering Students' Organization, The League of Agricultural Engineering Students N.G., UP Society of Agricultural Engineering Students, UPLB Society of Chemical Engineering Students, Society of Electrical Engineering Students

Taking Great Leaps toward Honor and Excellence



Office of the Dean

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