

A. Significant Events (Training, Conferences, Workshops, etc. - Local and International)

No.	Date/Duration	Specific Title	Highlights	Venue	Persons Involved	Unit	Role of Unit/Persons Involved
	25 November and 2 & 9 December 2019	Procurement Officers Training		ICOPED Auditorium, CEM, UPLB	Ms. Sophia L. Merin	DCE	Participant
	01-04 December 2019	Presented a paper entitled "Sizing and Siting of a Concentrating Solar Power Plant in an Unbalanced Radial Distribution System" in the 11th IEEE Asia-Pacific Power and Energy Engineering Conference 2019 (APPEEC 2019)		Macau, China	RAAguirre	DEE	Paper Presenter
	02-13 December 2019	Assessment and Analysis of the Effects of the Extensive Use of Mechanization on Farm Labor Use and Patterns: Study in Support for Policy on Sustainable Human Resource Development of the Agricultural Labor Sector	Conducted filed survey to interview rice and corn farmers, farm workers, custom service providers and other key informants in Iloilo Province	Select rice and corn producing municipalities in Iloilo Province	VA Rodulfo Jr., AC del Rosario, MVL Larona, A Salandana, and G Opulencia	BIOMECH	Project Team
	03 December 2019	Chaired the Renewable and Sustainable Energy Session in the 11th IEEE Asia-Pacific Power and Energy Engineering Conference 2019 (APPEEC 2019)		Macau, China	RAAguirre	DEE	Session Chair
	04-06 December 2019	Project Monitoring	Conducted site visit and monitoring activities regarding installed seaweed dryer in the project site	Anilawan, Puerto Princesa, Palawan	RSPangan, Mampo, Ybarredo, and ERepoldo	BIOMECH	Project implementer
	05-06 December 2019	Administrative secretaries of different IAE Divisions attended the ERDT Training		UP Diliman	ASBautista, MFAran, MTLabrador, MTMiranda	IAE	Participants
	09 December 2019	UP REPSS 10th Anniversary	<ul style="list-style-type: none"> •Flag Raising Ceremony •Wellness Seminar Anniversary Fellowship 	<ul style="list-style-type: none"> •Main Library, UPLB •ASI LH, CAFS, UPLB 	MVL Larona, JD de Ramos, MR Santiago, and MFV Eusebio	BIOMECH	Members
	09-12 December 2019	Presented a paper entitled "Analysis of the Optimal Allocation of Intermittent Distributed Generators in an Unbalanced Distribution Network Using Stochastic Load Flow" in the 9th International Conference on Power and Energy Systems 2019 (ICPES 2019)		Perth, Australia	RAAguirre	DEE	Paper Presenter
	10-13 December 2019	4th Philippine Solid and Hazardous Waste Management Conference / 1st International Conference on Circular Economy-based Waste Management	RLReaño presented a paper titled "Rice husk conversion to hydrogen as fuel source: Comparison of environmental impact and energy demand of different production pathways"	Aquino Center and Museum Convention Hall, Tarlac City, Tarlac	RLReaño	DES	Participant
		Execom Christmas Lunch		Lola's Café, Bay, Laguna	CEAT Execom Members	CEAT	Participants
	11 December 2019	PJABE Editorial Staff Meeting	<ul style="list-style-type: none"> •PJABE Webpage •PJABE 2019 Issue No.2 	BIOMECH Conference Room, CEAT, UPLB	EK Peralta, RB Saludes AA Delos Reyes Jr. MCM Detras MVL Larona MFV Eusebio	BIOMECH, IABE, and DChE	Editorial Staff
	12 December 2019	Chaired the Distributed Generation and Grid Integration Track in the 9th International Conference on Power and Energy Systems 2019 (ICPES 2019)		Perth, Australia	RAAguirre	DEE	Session Chair
	12-16 December 2019	Plenary Speaker "18th International Symposium on Advanced Technology"		Southern Taiwan Univ. and Technology, Taiwan	ARElepano	ABPROD	Speaker
	13 December 2019	CEAT-OCS Christmas Dinner / Party	Christmas dinner, game, and exchange gift	Elbeatz, LB Square	CEAT OCS Staff	OCS	Attendees
	16 December 2019	Interview of applicant for Engineer II position (previously occupied by AA Borja)	One (1) applicant was interviewed	BIOMECH Conference Room, CEAT, UPLB	VA Rodulfo Jr., RS Pangan, AC del Rosario, JD de Ramos, MR Santiago, MVL Larona, JC Orozco, MFV Eusebio, and AM Eusebio	BIOMECH	Hiring Unit
		BIOMECH Annual Review and Planning Workshop	<ul style="list-style-type: none"> •Presentation of outputs of different divisions in 2019 •Presentation of plans for 2020 	Indigo Bay, Calamba, Laguna	BIOMECH Staff	BIOMECH	Project Team
		DEE Christmas Party		EE Building, CEAT, UPLB	DEE Faculty and Staff	DEE	organizer: DEE Socials Comm; participants: faculty and staff

17 December 2019	CEAT Support Offices Christmas Party		EE Auditorium, CEAT, UPLB	Staff of DO, CSO, Library	CEAT	Participants
18 December 2019	2019 MDC Young Construction Professionals Leadership Summit		MDC, Taguig City	RGO Navarro and 9 BSCE graduating students	DCE	Participants
27 December 2019	Coordination Meeting of the Nationwide Agri-Fisheries Investment Audit and Investigation Team (NAFIAIT)	Discussion of the action plan	AMTEC Conference Room, CEAT, UPLB	Romulo Eusebio and Cielo Pabella	AMTEC	Members
08-12 January 2020	visit JPFA plant factory facilities and initial collaborative discussions with JPFA staff		Japan	RBSaludes	AFSD	Visitor/ UPLB Representative

Legend:

Departments:

IAE – Institute of Agricultural Engineering
DChE – Department of Chemical Engineering
DCE – Department of Civil Engineering
DEE – Department of Electrical Engineering
DES – Department of Engineering Science
DIE – Department of Industrial Engineering

Units in IAE:

ABPROD – Agricultural and Bio-Processing Division
AFSD – Agrometeorology and Farm Structures Division
AMD – Agricultural Machinery Division
LWRD – Land and Water Resources Division

Research and Extension

BIOMECH – Center of Agri-Fisheries and Biosystems Mechanization
AMTEC – Agricultural Machinery Testing and Evaluation Center

Support Units:

DO – Dean's Office
CSO – College Secretary's Office
CEAT Library
CSC – CEAT Student Council
AA - Alumni Association

B. New, Ongoing, and Completed RDE Projects

No.	Date/Duration	Unit	Specific Title	Status/Objective(s)	Expected Output	Leader and Staff	Source of Funding
1	01 May 2017 - 30 April 2021	IPB and IAE	Project 5. Assessment of Sugarcane Varieties and Germplasm Collection for Drought and Waterlogging Tolerance Component 1: Screening of Sugarcane for Drought Tolerance		Research	Dr. Kevin F. Yaptenco and aP Erwin P. Quillooy	Sugar Regulatory Administration
2	01 May 2018 - 30 April 2021	AFSD-IAE	Smarter Approaches to Reinvigorate Agriculture as and Industry in the Philippines II Proj 2.1 Community Level SARAI - Enhance Agricultural Monitoring System and Crop Advisories		Research	Prof. Moises A. Dorado, aP Vicente G. Ballaran, REVLuna, Engr. Leo Niel T. Viado, JMSuarez, and KSGBrusola	DOST-PCAARRD
3	01 May 2018 - 30 April 2021	LWRD-IAE	Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines II .Proj. 2.3 Smarter technologies for Crop Water Management		Research	Dr. Roger A. Luyun, Jr., Dr. Ronaldo B. Saludes, Engr. Yaminah Mochica M. Pinca, Engr. Toni-Ann Mae C. Salcedo, aP Erwin P. Quillooy, and aP Paolo Rommel P. Sanchez	DOST-PCAARRD
4	01 January 2019 to 31 December 2020	AMD-IAE and BIOMECH	Assessment of the Level of Mechanization of the Rice and Corn Productions Systems in the Philippines	Finalized the survey instruments for rice and corn; Conduct of assessment survey in Palawan and preparation for the other provinces in Region IV Preparation for the national workshop for the methodology for the MAP project	Assessment of the Level of mechanization in rice and corn production systems for the provinces of Region IVA and IVB vis-a-vis Ideal level of mech; Mechanization Gaps; Machinery requirement per province	Dr. Rossana Marie C. Amongo, Dr. Maria Victoria L. Larona, aP Mark Keylord S. Onal, Dr. Arsenio N. Resurreccion, Engr. Gherlee Nelle L. Lalap, RSDG Duminding, Engr. Ronie C. Valencia, and Ms. Myla I. Idian	DA-BAR
5	2019	AMD-IAE	Coco Pests Eradication using Unmanned Aviation Vehicle (UAV), under the ERDT Proposal BUCo I4	Proposal	Research	Dr. Rossana Marie C. Amongo and aP Erwin P. Quillooy	PCAARRD-DOST
6	2019	AMD-IAE	Environmental Adaptation Technologies & Systems (EATS) for Food ERDT on Environment & Infrastructure Program	Proposal	Research	Dr. Rossana Marie C. Amongo, Dr. Ronaldo B. Saludes, Dr. Roger A. Luyun, Jr., Engr. Ronie C Valencia, MG Acosta, Ms. Khendy S. Bautista, Dr. Maria Victoria L. Larona, Engr. Adrian A. Borja, and RSD Dumingding	DA-BAR
7	On Going	BIOMECH and IAE	Identifying suitable sites for small scale irrigation projects (SSIPS) in Mindoro Provinces through GIS-based water resources assessment Study: Needs and design assessment for the identification of the small-scale irrigation water sources for agricultural use	On-going data collection of the different SSIPs in Mindoro Provinces; Mapping of the SSIP potential areas in Oriental Mindoro Provinces	Maps of Potential SSIPs in Mindoro Provinces	Dr. Rossana Marie C. Amongo, Dr. Ronaldo B. Saludes, Dr. Roger A. Luyun, Jr., and Dr. Maria Victoria L. Larona	DA-BAR
8	On Going	BIOMECH and IAE	Identifying suitable sites for small scale irrigation projects (SSIPS) in Region IV-A (CALABARZON) through GIS-based water resources assessment Study: Needs and design assessment for the identification of the small-scale irrigation water sources for agricultural use	On-going data collection of the different SSIPs in Cavite, Laguna, Batangas, Rizal, Quezon; Mapping of the SSIP potential areas in Region IVA	Maps of Potential SSIP in Region IVA	Dr. Rossana Marie C. Amongo, Dr. Ronaldo B. Saludes, Dr. Roger A. Luyun, Jr., Engr. Ronie C. Valencia, MG Acosta, Ms. Khendy S. Bautista, Dr. Maria Victoria L. Larona, and Engr. Marck Ferdie V. Eusebio	DA-BAR
9	On Going	BIOMECH	Optimization and Pilot Testing of the Developed Drying System for Seaweeds	Completed the drying experiments for the optimization study in Romblon	Commercial prototype of seaweed drying system	Dr. Ronel S. Pangan, MVAampo, YEBarrodo, and Mr. Eric Repoldo	DOST-PCAARRD PhP 4.7M

10	On Going	BIOMECH	Improvement and Promotion of a Technology Package for the Production of Powder from Turmeric for Commercial Application	a. Deployment and preliminary performance testing of a solar tunnel dryer in Dumingag, Zamboanga del Sur b. Completed fabrication of an improved turmeric slicer and sieve separator c. Conferred with the newly-elected municipal mayor of Dumingag regarding project implementation	a. Test results b. Proposed revision and re-signing of the Pledge of Commitment between BIOMECH-CEAT and the LGU	Dr. Jose D. de Ramos and Engr. Marife R. Santiago	DA-BAR (Php 5M)
11	On Going	AMD-IAE and BIOMECH	Assessment of the Level of Mechanization of the Rice and Corn Productions Systems in the Philippines	Finalized the survey instruments for rice and corn; Conduct of assessment survey in Palawan and preparation for the other provinces in Region IV Preparation for the national workshop for the methodology for the MAP project	Assessment of the Level of mechanization in rice and corn production systems for the provinces of Region IVA and IVB vis-a-vis Ideal level of mech; Mechanization Gaps; Machinery requirement per province	Dr. Rossana Marie C. Amongo, Dr. Maria Victoria L. Larona, aP Mark Keylord S. Onal, Dr. Arsenio N. Resurreccion, Engr. Gherlee Nelle L. Lalap, RSDG Duminding, Engr. Ronie C. Valencia, and Ms. Myla I. Idian	DA-BAR
12	Proposal	AMD-IAE	An Assessment of Existing AMTEC Testing and Evaluation Procedures and Policy Implications of the Agricultural and Fisheries Program of the Government		Policy Study	Dr. Arthur L. Fajardo, Dr. Rossana Marie C. Amongo, and Dr. Arsenio N. Resurreccion	DA-PCAF
13	01 January to 30 December 2019	ABPROD-IAE	Postharvest Technologies for Rapid Screening and Improved Drying of Hybrid Rice Seed	MOA Signing	Research	Dr. Kevin F. Yaptenco, Asst. Prof. Fidelina T. Flores, Asst. Prof. Rina A. Bawar, and Engr. Luther John R. Manuel	Private seed company - PARRFI
14	01 January to 30 December 2019	ABPROD-IAE	DOST SIBOL LABS: Startup Innovation and Business Opportunity Linkage Labs	On-going	Extension	Dir. Glenn B. Baticados (PL) and Dr. Kevin F. Yaptenco	PCIEERD
15	On-going	BIOMECH	Assessment and Analysis of the Effects of the Extensive Use of Mechanization on Farm Labor Use and Patterns: Study in Support for Policy on Sustainable Human Resource Development of the Agricultural Labor Sector	Project inception, hiring of staff, project mobilization, pre-test of survey questionnaires, gathering of secondary data	Assessment and analysis of changes in labor use in rice and corn farms as caused by increasing mechanization	Dr. Victor A. Rodulfo Jr., Engr. Alexis C. del Rosario, Dr. Maria Victoria L. Larona, G Opuencia, A Salandanan, and A Eusebio	DA-PCAF
	15 April 2019 to December 2020	LWRD-IAE	Development of Water and nutrient management system for drip-irrigated aerobic rice culture	On-going	Research	RMLampayan, Zsanchez, and MTLabrador	PhilRice
	17 January 2019 to 16 January 2020	AFSD-IAE	Establishment of Soilless Culture Technology for Urban Food Production; Program: Smart Plant Production in Controlled Environment s (SPICE)	On-going	Research	RBSaludes	DOST-PCIEERD
16	Proposal	BIOMECH	Establishment of Custom Service Providers of Mechanized Technology for Select Rice Production Areas of the Country	For re-evaluation and change of funding source			DOST-PCAARRD
17	January 2020 to December 2020	DIE	Designing an Information Systems Framework for Collaborative Technologies for Digitized Open Innovation Network for Inclusive Growth (DOING)	Define and specify the role of various R&D actors in the collaborative innovation landscape; Characterize information availability and needs of R&D actors in the collaborative innovation landscape; Characterize the workflow and interactions of partnering R&D actors with the intermediary; Assess the current R&D landscape of the pilot case	Workflow; Framework; Technology patent	Study Leader: aProf. Micah A. Ramirez Co-Study Leader: Dr. Diane De Silva	OVCRE-UPLB
	Proposal	BIOMECH	Rapid Mechanization Assessment of Select Mill Districts as Input to SRA's Mechanization Plan	Submitted MOA to SRA, awaiting final approval and fund release			SRA
	Proposal	BIOMECH	Optimization and Pilot Testing of the Mechanization Resource Mapping, Monitoring and Data Analysis System (M3DAS) for Mechanization Planning, Implementation and Policy Data Generation for Government Departments and LGUs	Submitted signed MOA to PCAARRD; awaiting fund release			DOST-PCAARRD

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C. Technical Assistance

	Date	Unit	Specific Title	Highlights	Venue	Persons Involved	Role of Unit/Persons Involved
	NONE						

D. Scientific Productivity

No.	Unit	Type of Publication	Title	Author (s)	Publisher	Date Published
	DChE	Book Chapter	Rice Straw Overview: Availability, Properties, and Management Practices	NV Hung, MC Maguyon-Detras, MV Migo, R Quilloy, C Balingbing, P Chivenge, M Gummert	SpringerOpen	Available online December 1, 2019 (c) 2020
	DChE	Book Chapter	Thermochemical Conversion of Rice Straw	MC Maguyon-Detras, MVP Migo, NV Hung, M Gummert	SpringerOpen	Available online December 1, 2019 (c) 2020
	DChE	Book Chapter	Anaerobic Digestion of Rice Straw for Biogas Production	NVC Ngan, FMS Chan, TS Nam, HV Thao, MC Maguyon-Detras, DV Hung, DM Cuong, NV Hung	SpringerOpen	Available online December 1, 2019 (c) 2020
	DES	Journal Article	Assessment of environmental impact and energy performance of rice husk utilization in various biohydrogen production pathways	RLReaño	Bioresource Technology	11 December 2019
	ABPROD-IAE	Technical Paper	Rapid Differentiation of Commercially-Available Soy Sauce using Near Infrared Spectroscopy	JH Rosales, KF Yaptenco, MJB Aguila, PR Armstrong	PJABE	2019
	ABPROD-IAE	Technical Paper	Development of a Fry Counter Software for Striped Catfish (<i>Pangasianodon hypophthalmus</i> (Sauvage))	LJR Manuel, PM Bato, RMC Amongo, DC Suministrado, KF Yaptenco	PJABE	2019
	LWRD-IAE	Technical Paper	Determination of Site-Specific Crop Coefficients of Corn (<i>Zea mays</i>)	JA Gonzales RALuyun,Jr. RBDe Los Reyes RMGaloso	PJABE	2019

	LWRD-IAE	Technical Paper	Utilization of Established Protocol in Identifying Potential Sites for Small Farm Reservoirs in Quezon Province, Philippines Using GIS-Based Water Resources Assessment	RMCAmongo RBSaludes RALuyun, Jr. PLPRelativo MVLlarona RCValencia MGAcosta KCRAbellera JCLNavasero RSdGDuminding	PJABE	2019
1	LWRD-IAE		Assessing the impacts of climate change on dependable flow and potential irrigable area using the SWAT model: The case of Maasin River watershed in Laguna, Philippines	VBella Lalejo	The Journal of Agricultural Engineering-Italian Society of Agricultural Engineering	2019
2	LWRD-IAE		Effect of neap- spring hydrodynamics on salt and suspended transport in multi-branched urban estuaries	JCCasila VBella Kyokohama	Elsevier	2019
3	LWRD-IAE		Potential of the Molawin Creek for Micro Hydro Power Generation: As Assessment, Basic Research OVCRE-UPLB Project	JCCasila, MADuka, RBDE Los Reyes, JCUreta	Elsevier	2019

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E. New Appointments/Resignations/Retirements

No.	Date	Unit	Name	Position
1	06 December 2019	DCE	Engr. Harvey S. Maunahan and Engr. Judy Ann A. Ramos	Instructor 2 (Substitute faculty)

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F. Local and Foreign Visitors

No.	Date	Unit	Name	Organization	Place of Origin	Purpose of Visit
	NONE					

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G. Visiting Exchange Faculty/Students

No.	Date	Name	School	Place of Origin	Field of Interest
	NONE				

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H. New MOU/MOA

No.	Unit	Duration	Parties Involved	Purpose of Agreement
		NONE		

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I. Awards and Recognition (Faculty, REPS, Administrative Personnel, Students)

No.	Unit	Name of Awardee/Recipient	Position	Title of Award	Granting Organization	Date of Award
1	DCE	UPLB (DCE, CEAT)		November 2019 CE Licensure Exam 2nd Top Performing School	PRC	13 December 2019
2	DIE	Angel Carlos Kenneth Punongbayan Alethea Villa Arielle Yap Engr. Alan Mercado (coach)	student Student Student Student Coach	champion - IEshikawa 14 Case Study Competition	UP Circle of Industrial Engineering Majors (UP CIEM) and LF Logistics	09 November 2019

J. Other Announcements (Renewal of Appointments with Promotion)

No.	Effectivity	Name	Unit	Previous Designation	New Designation
	NONE				

AMTEC Announcements

(1) Updates on Infrastructure Development
 -Ongoing construction of AMTEC Shed and Testing Facilities (Phase II)- still at 80% work accomplishment as of 3 January 2020. No update yet from the Project Engineer of the progress.
 -Pre-bidding activity for the Rehabilitation of Building in WESVIARC (AMTEC Visayas) on January 13, 2020 while opening of bids on January 27, 2020.
 -On-going preparation of Voucher for the release of funds for the DOST-PCAARRD IDG Project (Engine Set Up) amounting to PhP4.84M.

(2) Passing of Engr. Darwin C. Aranguren last 22 December 2019.

DEE Announcements

Return to service of Engr. Lorwin Felimar B. Torrizo from study leave for MS degree.

IAE Announcements

(1) Transfer of Ms. Olivia P. DeLuna to CVM effective 02 December 2019

(2) Exchange student from TMU - Undergrad non-degree special student -Mr. Atsushi Matano - 23 January 2020 to 31 May 2020

DIE Announcements

(1) IED Students' Christmas Party 2019 was held last 06 December 2019 in IE department, room 100. It was attended by around 90 IE students and was sponsored by Unilever, La Pacita and Universal Robina Corporation. This annual event was made possible by the joint effort of the department's faculty and staff.

(2) IED Faculty and Staff christmas party 2019 was conducted in IE 100 last 12 December 2019.

(3) IED was visited by DHL and Choice Harvest last 06 and 13 December 2019 to discuss their interest to participate in the CEAT academe-industry linkage program

CSO Announcements

SAIS Enlistment Schedule and General Registration

03-06 January 2020 (Thu / Fri) – Second Preregistration for Second Semester

07-11 January 2020 – General Registration

07 January 2020 – Graduate Students / Graduating Students of Second Sem 2019-2020

08 January 2020 – Graduate Students / Batch 2016 and earlier

09 January 2020 – Graduate Students / Batch 2017 and Batch 2018

10 January 2020 – Graduate Students / Batch 2019

11 January 2020 – Free for All

13-21 January 2020 – Change of Matriculation

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K. Concerns (Students, Faculty, REPS, and Administrative Staff)

No.	Concerns and Issues	Status	Unit