

# Research Programs, Projects and Activities of Western Philippines University

Presented during the 15<sup>th</sup> PKP meeting

November 8, 2017, 10:00 am. Best Western Plus  
Ivywall Hotel, Rizal Avenue, Puerto Princesa City

- There are completed and on-going programs, projects, and studies done in the University on:
  - Ecology, ecosystem and climate change
  - Socio-cultural and governance,
  - Economics, energy, technology and infrastructure

# Completed Research

- As of March 31, 2017
  - Creencia, L.A. Production of Abalone and Topshell Juveniles for community farming and resource enhancement in Northern Palawan and Expanded Hatchery Facilities
  - Banlawe, M. P, et al. Development of Coconut Dehusker
  - Marzo, M.L.O. Assessing Soil Fertility of Lowland Rice Farms in Southern Palawan through MOET
  - Marzo, M.L.O, et al. Agroecological and Economic Benefits of Vermicomposting

- Sopsop, G.O. Survey Research of Local Community Perception on open-pit mining in 12 sites (Palawan Quick Silver Mines)
- Arcilla, L. S. Benefits and Cost of Green Technologies to Poultry and Swine Producers in Aborlan, Palawan
- Creencia, L. A. Reproductive and Feeding Biology and Population Dynamics of the Swimming Crab *Portunus pelagious* in Honda bay and Ulugan Bays, Puerto Princesa City
- Omar, J. M. Antimicrobial effects of Fish Mucus
- Omar, J. M and N. M. Aspe. Perception of Citizen on Urban Forestry in Local Cities

- Gonzales, B. et al. Coastal Resource Assessment at Sitio Tawirey, Luzviminda, Puerto Princesa Bay, Palawan
- Gonzales, B. J and M. Matillano. Fishing Gear and CPUE in Malampaya Sound, Palawan

- As of June 2017
  - Omar, J. M and A.L L. Lerom. Agglutination and Antimicrobial testing of medicineal/indigenous plants
  - Omar, J. M and C.H. Santiago. Antimicrobial Producing Symbiont from *Haliotis asinina*
  - Omar. J. M. Valuation of Mangrove Forest resources in Bali, Indonesia
  - Omar, J. M and J. Gonzalez. Antimicrobial effects of *Caulerpa* spp.
  - Aspe, N and S. James. Pheretimid earthworms from Mt Apo Mindanao Island, Philippines with description of eight new species

- Sopsop, L. B. and R. R. Abordo. Carbon Stock Assessment of Timber Trees in th Forest Patch in Sitio apis, Barangay Apoc-apoc, Aborlan, Palawan
- Sopsop, L. B and S. Sabturani. Indigenous Knowledge on Climate Adaptations |Among Palawan tribe of Mabalot, Brookes Point, Paalwan
- Bajo, P. O. Jr. Fuel Pellet Mixture of Rice Husks and *Gemelina arborea* Roxb. Particles
- Banlawe, M. P., et al Pilot Testing of Coconut Waste Shredder
- Bacosa, C. A. Analysis and mitigation of Southern Palawan National Roads Cut Slopes

- Bacosa, C. A. Soil Resistometer apparatus for geophysical analysis of soil slope stability and landslide
- Bacosa, C. A. Structural analysis of national structures heritage (Fort of Agutaya)
- Gabo, L.S. Red Mud Mortar and CHB Filter/alternative CHB Mortar Filler
- Bonina R. Trash papers and waster cardboards for ceiling board production
- Llanto, J. Recycled crushed glass as an alternative materials for CHB



- Bacosa, C.A. Analysis of the Flood Occurrence Vulnerability of Puerto Princesa City
- Bacosa, C.A. Solar Water Heater
- Bacosa, C. A, et al. Traffice Situation Analysis and Evaluation of the level of implementation of the traffic managment of Puerto Princesa City
- Bacosa, C. A. Coastal Erosion analysis and Mitigation of Agutaya, Palawan: Effects of the Climate Change
- Martinez, B. et al. Performance analysis of improvised electronic Ballast to reuse busted compact fluorescent lamp

- Andres. J. Hydropower capacity assessment of existing irrigation canal
- Gabinete, M.G., et al. Thermo electric power generator using charcoal stove as heat source
- Nejal, U.N Jr, et al. Design and Fabrication of Prototype Curtis Steam Turbina
- Penafiel, L. F. et al. Design and Fabrication of Fish dryer Using Coconut shell as fuel

- As of September 2017
  - Balisco, R. A. People and the Environmental Assessment of Reef Fish Resiliency and Asso Livelihoods (with UPMSI)
  - Castro, L. S. Synoptic investigation of Human Impacts on Nearshore Environments: Coraf Reefs (with Dela Salle)
  - Bacosa, C. A. Gravimetric Biogeo Permea Waste Water Treatment Device for Heavy Metal Removal of Mining Effluent
  - Bacosa, C. A. Biotechnical and Bio engineering utilizing *Melastoma malabatricumn* sp for soil slope

- Bacosa, C.A, et al. Analysis and mitigation of Northern Palawan National Roads Cut Slopes stability using GIS (Phase 2)
- Bacosa, C. A, et al. Sound Energy: An Electric Source of Noise Pollution Based Power Bank
- Andres, J. F. Performance Analysis of Locally Fabricated Electronic Rice Stink Bug Pester
- Eliazar, et al. Women Role in the Promotion of Agricultural Production: The Aborlan Case

# On-going Research

- Lopez, R. V Jr. Alternative Broiler Production System
- Lopez, R. V. Jr. Development of Paraoakan Production System
- Cuen, I, et al. Assessment of Agri-fisheries Processing in Palawan
- Peneyra, J.L and M. P. Banlawe. Development of Commercial Model Coir Decorticating Machine (DOST)
- Sopsop, L.B. et al. Environmental Impact Assessment and Monitoring of Quarry Projects in Aborlan, Palawan

- Sitcharon, G. et al. Innovative Processing and Product Development of Cashew Fruits and Nuts
- Sopsop, L. CAFES WPU Herbarium
- Celadina, D.A and G.Y. Yara. Monitoring and detection of Ecosystem Changes for enhancing Resilience and Adaptation in the Philippines (MODECERA) Phase 11
- Lopez, R. V Jr. Phenotypic Characterization of Native Pigs in Palawan and Profiling of Raisers
- Venturillo, R. M. and S. Dela Fuente. Geo-spatial Analysis of Palawan Environmenta using Remote Sensing and Gespatial Information System
- Dela Fuente, S. Reinforestation Demo Farm

- Sopsop, G. O. Assessment of the Existing Pests and Diseases in Palawan
- Sopsop, G. O. Insects of Palawan
- Venturillo, R. M. Fauna of Talakaigan Watershed, Aborlan, Palawan
- Magay, A. B and D. Santiago. Varietal screening of Ubi against Anthracnose
- Magay, A. Survey of Biological Agents of Coconut Insect Pests in Palawan
- Orot, S. Tracer Study of Graduates of Agrostudies Internship Program

- Lopez, R. V. Jr. Ethnoveterinary Practices for Livestock and Poultry in Palawan
- Lopez, R. V Jr. Freshwater Assessment under the Faunal Inventory of SAKA Village, WPU, West Philippines
- Eliazar, R. A. Perceived Effectiveness of DA-Post Harvest Facilities in the Farmers Development at Bataraza, Palawan
- Eliazar, R. A. Agricultural Soil Conservation Practices of Pineapple Farmers in Bulalacao, Bataraza, Palawan
- Sopsop, L. B. Documentation and Assessment of Local/Indigenous Knowledge (LINK) for Climate Change Adaptation of Agri-fisheries Communities



- Sopsop, L. B. Floral Survey in the Forest Patch in Sitio Apis, Barangay Apoc-apoc, Aborlan, Palawan
- Sopsop, L. B. Cost and Benefits of Quarry Projects in aborlan
- Cuen, I. development of Screw Type Inverted and Continuous Rice Hull Stove
- Banlawe, M. P and J. L. Peneyra. Development of Cashew Testa Removal
- Bacosa, C. a. Slidometer Apparatus for Soil slope failures and vulnerability detection
- Andres, J. et al. Customized Automatic Water Dispenser

- Hugo, H D, et al. Horizontal Shaft Impact Crusher for Waste Glass
- Cayaon, C, et al. Speial Purpose Tools (SPT) Flywheel Puller for small diesel engine
- Macabutas, E. et al. Assessment of Wood Turbine Runner for small scale power transmission in rural communities
- Macabutas, E. et al. Development of Convective Radiative Mechanical Fish Dryer
- Macabutas, E, et al. Mecahnical Dryer for Cassava Chips

Thank you.