

ICERD BULLETIN



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BISU MC goes Green

Ms. Darlene Angelica P. Acedo and Ms. Rizza S. Magallanes

March 7, 2015, Bohol Island State University Main Campus hosted three simultaneous gatherings for environmental awareness: 6th International Conference on Environmental and Rural Development, 8th Asia Pacific Regional Center for Excellence, and International Volunteer Training. The conference was attended by 180 delegates from 16 different countries, namely Australia, Cambodia, Thailand, West Indies, Indonesia, Malaysia, Japan, Germany, Bosnia and Herzegovina, Pakistan, India, Bangladesh, Korea, Vietnam, Nigeria, and the Philippines.

The Opening Program commenced with an invocation led by Ms. Shane Tumampas, an Instructor from the College of Engineering and Architecture, followed by the singing of hymns. Among the key persons for the event was the Governor of the Province of Bohol, Honorable Edgar M. Chatto, and the City Mayor of Tagbilaran, Honorable John Geesnell L. Yap III represented by Dr. Glenn Doloritos and Mr. Leonides L. Borja, respectively. Their messages highlighted green programs for a green environment and growing consciousness while striking fair balance between rural development and environmental protection. Prof. Dr. Elpidio T. Magante, the Interna-

tional Society on Environmental and Rural Development (ISERD) Regional Vice President for the Philippines and the President of BISU, jovially welcomed everyone to the City of Friendship while recognition of the participants was done by Dr. Julian E. Torillo, Jr., Managing Editor of the International Journal on Environmental and Rural Development (IJERD) and the Focal Person for RCE-Bohol.

The Deputy President of ISERD, Prof. Dr. Eiji Yamaji gave a background of IJERD and ISERD Awards. The Awarding Committee composed of Dr. Magante, Dr. Pobar, and himself, screened 72 Oral Presentations and 88 Poster Presentations based on their originality, achievement, and usefulness. The Executive Secretariat of ISERD and Editor-in-Chief of IJERD, Prof. Dr. Machito Mihara, gave the context of ISERD which is excellent collaboration of strategies within the three pillars of living – Social, Environment, and Economic.

University Vice President for Academic and Related Affairs of BISU, Prof. Dr. Regucivilla A. Pobar, introduced the keynote speaker, Prof. Dr.

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6th ISERD Council Meeting completed

Mae Remedios C. Virtucio

With the 6th International Conference on Environmental and Rural Development (ICERD) opening at the Bohol Island State University (BISU) Main Campus on March 7, 2015, the International Society on Environmental and Rural Development (ISERD) Council members convened on the same date at the BISU President's Office for its annual council meeting.

Presided by ISERD President, Prof. Dr. Mario T. Tabucanon, council members from all over the world came to discuss the different endeavors that the organization had initiated in the past year, as well as its significant plans for the coming years.

Among these is the collaboration of ISERD with Regional Centers of Expertise (RCEs) and the United Nations University-Institute for the Advanced Study of Sustainability (UNU-IAS) in holding the 6th



ICERD in conjunction with the 8th Asia-Pacific RCE Meeting, the Memorandum of Understanding with the University of East Sarajevo on the Agrosym Symposium, and the recommendation of ISERD council members up to December 2015. During the meeting, the accounting report for the 2014 ISERD was also presented and approved.

The council discussed and approved the venue of the 7th ICERD which was announced later on that evening.

Research Experts present scientific studies on Ag & In Systems

APD Sandigan

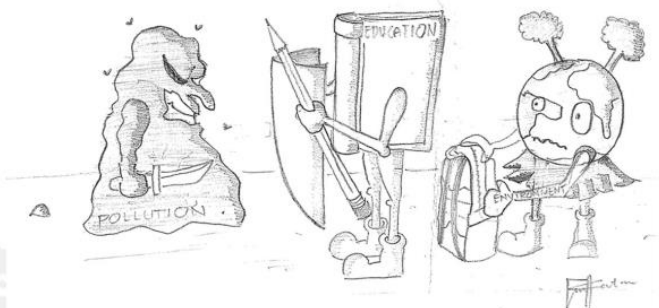
1st Session

In the area of scientific studies vis-a-vis Agricultural (Ag), Infrastructural and Information (In) Systems, the following papers were successfully presented by international researchers: Impacts of Atmospheric Temperature- Moisture Change on Yield of Thai Soybean Cultivar (Kanita Thanacharoenchanaphas* and Orose Rugchati, Naresuan University, Thailand); Perceived Socio-Economic and Environmental Effects of Chromite Mining in Salcedo, Eastern Samar (Judith B. Ty-Pelobello*, Ma. Christine Aubrey F. Miguel, Marina S. Macasil, Christopher A. Duran and Luz B. Chua); Efficiency of Vermicompost on Growth and Nutrients Content of Rubber Seedling (*Hevea brasiliensis*) (Kiriya Sungthongwise*, KhonKaen University, Thailand); and Nitrogen Adsorption Characteristics of Clinker Ash and Use of Clinker Ash in Plant Cultivation (Hiromu Okazawa*, Chinatsu Tanabe and Yasushi Takeuchi).

Dr. Corazon P. Macachor with Prof. Dr. Machito Mihara chaired and facilitated this session.

2nd Session

Still, in Ag & In Systems area of scientific investigations chaired by Dr. Barry N. Noller with Dr. Jeeranuch Sakkhaduang. Three research enthusiasts confidently presented their papers very informatively, namely: Characterization of Potential Molave (*vitexparviflorajuss*) Mother Trees in Lila, Bohol, Philippines (Noel T. Lomosbog* & Noel S. Gamil); Utilization of Coconut Fronds in Weed and Insect Pest Management in Organic Tomato Production (Marina A. Labonite*, et al); Application of Biodegradable Film from Yam (*Dioscorea alata*) Starch in Thailand for Agricultural Activity (Rugchati Orose* & Kanita Thanacharoenchanaphas); and Growth Performance and Feed Utilization of Common Lowland Frog (*Ranarugulosa Wiegmann*) Fed with Supplementation by Bromelian Extraction from Pineapple Feed at Different Levels (Rungkan Klahan* & Banyat Sirithanawong).



LIVING WITHIN LIMITS

Leonardo Di Caprio of Hollywood states that *"Raising awareness on the most pressing environmental issues of our time is more important than ever."* What seems unfortunate more than not knowing this actor is that, such issues seem to fall upon deaf ears since environmental awareness appears to be taboo even at this era.

Bohol Island State University, a young and the only state university in the Island Province of Bohol, envisions a society of world class human resource for sustainable development. The institution encompasses agricultural (forestry, fishery, trade) and technological fields. It is but only fitting that the institution hosted three relative affairs that center on environmental awareness – the 6th International Conference on Environmental and Rural Development, the 8th Asia Pacific Regional Center of Expertise, and the International Volunteer Training on reforestation for Leyte and Bohol.

More than the newly-painted walls and renovated rooms of the university, environmental awareness is one thing everyone from the BISU System was able to gain through the multi-national conference. We were able to stop for a while and actually reflect on the things we do every single day and think about how these affect us in a lot of ways.

We have spent most of our days idling our time with activities that eventually destroy our surroundings. We spend much on developments while forsaking environmental conservation. We build infrastructures but end up terminating life around us. We do all these without actually seeing the possible consequences that would ultimately finish us as well. Everything in this world has limits.

Prof. Dr. Mario T. Tabucanon, President of the International Society on Environmental and Rural Development (ISERD), highlighted the need for behavior and lifestyle changes. Setting targets is good, having ones that can effect positive change is better, and channeling these to the global community is best. The challenge lies on doing more research, innovation, monitoring, and evaluation of programs that could scale-up environmental awareness. Even with limits, things could be better if we only know how to address problems. However, it does not stop to that. We have to make solutions that would actually contribute long-lasting changes that could be felt by others as well, solutions that respect limitations but welcome development at the same time.

Change does not happen overnight. We cannot expect everyone to be all abiding citizens tomorrow. But hopefully, the one-day conference was able to ignite the spirit of camaraderie and erudition as we uphold an environmental-friendly milieu.

Living within limits does not mean limiting ourselves to mere compliant actions. It is about standing up and being responsible enough to lead. Each one can be a leader in his/her own right, but we have to know reality for us to be able to act accordingly. To be a leader living within limits is committing one's self to the challenges of life. As Mr. Kofi Annan, Former Secretary General of the United Nations said, ***"Our biggest challenge in this new century is to take an idea that seems abstract- sustainable development- and turn it into a daily reality for all the world's people."***

Delegates compete for poster presentation

Jerranica Anna C. Gumop-as

Promising men and women showcased their prowess as they presented their study in the poster presentation competition for the 6th ICERD- International Conference on Environmental and Rural Development held at Bohol Island State University. The competition was participated by a pool of contenders coming from Thailand, Cambodia, Myanmar, Japan, Indonesia, Bosnia and Herzegovina, Vietnam and the Philippines. The poster presentation supports mainly the advocacies of ICERD particularly on the following categories: Education for Sustainable Development (9), Rural Development (31), Environmental Management (17), Agricultural Systems (29), and Infrastructural and Information Systems (4). The competition did not only portray creativity of every individual but also their innovativeness towards the changing demands of the society. Each presentation is practically a reflection of a case study held in their respective countries. The entries were judged by a group of respective jury and the winners were announced during the awarding ceremony.

3rd Session

Finally, another interesting scientific studies presented on Ag & In Systems were the following: Potential and Applications of Micro Hydroelectricity Using Irrigation Ponds (Katsuyuki Shmizu*); Assessment on the Solid Waste Management and Sanitation Programs in the Municipality of Balilihan (Riame T. Tuico*, et. al); Applications of Heuristic and Logistic Regression Methods of Landslide Hazard Assessment in Wahig-Inabanga Watershed, Bohol, Philippines (Tomas D. Reyes, Jr); and Bohol Watersheds Flora and Fauna Database Management System (Catherine C. Napinas*, et al.)

This session was chaired and facilitated by Dr. Chuleemas-Boonthai Iwai & Prof. Jose T. Traverro.

Taken together, the myriad scientific studies presented by the local and international research experts during the 6th International Conference on Environmental and Rural Development held at the Bohol Island State University Main, its common goals lead to one direction, that is, for the public good and economic future for sustainable development across the globe.



BISU MC goes Green...

Mario T. Tabucanon, President of ISERD. The latter discussed about Education for Sustainable Development: Progress and Prospects. He emphasized that education is not just merely sustainable development, education is FOR sustainable development. Hence, it is but imperative for everyone to be aware of their values, behavior and lifestyle as transformation for the better is the real challenge.

Prof. Dr. Nelson M. Pateña, concluded the program by praising the development-driven stalwarts for hitting their mark through the said conference. Despite the power interruption that caused the delay of the opening, everyone was in high spirits for environmental conservation. Mrs. Mae Remedios C. Virtucio, the Lady of Ceremonies, left everyone with a thought worth pondering by Henry David Thoreau: "What good is a big house, if you haven't got a decent planet to put it on." The end of the opening program signaled the start of the parallel sessions throughout the school.

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Prof. Dr. Regucivilla A. Pobar

Cultural Presentations and Awarding Ceremony

■ Faustino Rey T. Hormiguera

A cultural show and awarding ceremony served as the finale for the 6th International Conference on Environment and Rural Development held at BISU MC. The event was much anticipated after a busy day of presentations by multi-national guests. The BISU MC Activity center was the perfect location to showcase the talents of the school's performers.

The famous BISU Band jumpstarted the event with their "Evolution of Songs." It was the front act for the program proper. The invocatory song was offered by "The Voice" contestant Ms. Mercedita Quiachon and Mr. Shawn Michael Espejo. After the singing of hymns, a welcome message was given by the university president Dr. Elpidio T. Magante. He emphasized the importance of this affair and urged everybody present to have fun. Dinner followed and while everybody was having their bountiful meal, a show choreographed by the esteemed Mr. Camacho was taking place. The dances were intense and it showed the Evolution of Dances in the country.

The final phase of the program was the awarding of the Best Papers and Best Posters. Prof. Dr. Eiji Yamaji presented the award for the Best Paper and Dr. Magante and Dr. Pobar for the Best Poster. Prof. Dr. Mario T. Tabucanon, the ISERD President, gave his speech after. He talked about the importance of this affair and how this would benefit everybody. Finally, Dr. Nelson M. Pateña gave his Closing Remarks. This successful event was masterfully hosted by Ms. Mary Grace Ramada.



BISU MC HOLDS 8TH ASIA-PACIFIC RCE MEETING

■ Clifford Mahusay

Bohol Island State University Main Campus (BISU MC) conducted the 8th Asia – Pacific Regional Center of Expertise (AP RCE) meeting at Multimedia center on March 7, 2015.

The main goal of the said event is moving forward to achieve "Sustainable Development" with the integration of education, environment, rural development and how to preserve and sustain the biodiversity to maintain balance and harmony between humans and organisms.

Participants from Asia and the West took part in presenting their initiatives and cases as they move hand in hand in dealing with these inevitable existing problems. Different ideas, innovations, methods and strategies were presented logically for the participants to thoroughly understand and digest the topic.

Various concerns were raised by the participants like environmental issues specifically forest preservation and management. The application of Education for Sustainable Development (ESD) to the local community, students and teachers in bringing awareness to students about the environment and the different ways on how to conserve and preserve nature. Some tackled achievements which successfully applied Education for Sustainable Development (ESD). In the community, teachers make the move to apply organic farming in schools. As a result, the students were able to learn by doing and earn by planting and harvesting vegetables and crops in school gardens. These cases proved that humanity is still concerned about maintaining ecological balance and sustainability.

The participants are optimistic that this meeting will contribute to minimizing the causes of these issues and problems and later give a bright light to the youth who will live and give hope to the global community to pursue sustainable development and advancement.

Studies on Rural Development and Environmental Management Presented

■ Maria Nemia L. Malate

The Oral Presentations of the different researches were divided into three sessions.

Sessions one and two, centered on Rural Development while the third session was focused on Environmental Management.

The first session started with Hisashi Moris' An Approach for Monitoring the Reforestation and Conservation Efforts by Local Communities followed by the research presentation of Kiichiro Hayashi entitled Cultural Ecosystem Service Assessment in a Semi-Mountainous Area of Japan – Case in Toyota City. Renissa S. Quiñones was the third to present with her research study entitled Development of Calcium-enriched Gluten-free Cookies. The last presenter of the morning session was Maria Danessa S. Rabia, with the research study entitled Resource Stock Enhancement of Napoleon Wrasse Sightings in the Province of Bohol. Prof. Dr. Dieter Trautz and Dr. Samuel J. Gulayan were the Chair and Co-chair respectively.

The second session started with the research presentation of Lalita Siri Wattananon with the research study entitled Effects of Drying Methods on Utilization of Dietary Fiber from Pineapple Wastes. The second presenter was Jose T. Traverro with the research study entitled Impacts of Pyrolytic Acid to Biological and Chemical Properties of Depleted Soil in Bohol, Philippines. Chuleemas Boonthai Iwai was the last to present for the second session with the research study entitled Reuse of Wastewater from Cassava Industry for Napier Grass Production. Dr. Junaid Alam Memon and Dr. Maria Danessa S. Rabia were the Chair and Co-chair respectively.

The third session which focused on Environmental Management commenced with the research presentation of Aquilino M. Enriquez with the research study entitled Environmental Protection Practices of Danao City Beach Resorts. The second presenter was Machito Mihara with the research study entitled Mitigating Splash Erosion with Applying *Bacillus Subtilis* Natto. The third presenter was Ayako Sekiyama who presented her research study on the Applicability of Estimation Method for Soil Moisture in Mongolian Grasslands Using a Pattern Decomposition Method. The fourth to present was Josefina Dizon with her research study entitled Threats Assessment and Management of the Baua-Wangag Watershed Forest Reserve in Gonzaga, Cagayan. The fifth presenter was Junaid Alam Memon who presented the research study entitled Social and Ecological Factors Governing Mangroves Cover Change in the Indus Delta of Pakistan. The last presenter was Makoto Ooba with the research study entitled Analysis About Urban Ecosystem Services for Ecosystem Offset. Dr. Marina S. Apilado and Dr. Hiromu Okazawa were the Chair and Co-chair respectively.

The presenters were given a certificate of recognition after each has presented their research study.

BISU MC holds the 6th International Conference on Environmental and Rural Development

Reminily Dahan

Room 3

1st Session

The first session was chaired by Dr. Lalita Siri wattananon. The first presenter was Kingshuk Roy with his thesis title Site – Specific Soil Conservation Approaches in Desertification – prone Areas in the Inner Mongolia Region, China. It was followed by the following presenters Rumila C. Bullecer thesis entitled Faunal Diversity Trends at the Rajah Sikatuna Protected Landscape, Bohol, Philippines, Barry Noller on Pesticide Distribution in the Namphong River NE Thailand and Land Use and Other Practices, and Takashi Kume thesis title Non-uniform Salinity Distribution of Soil Salinity in an Irrigated District, China.

The second session was chaired by Dr. Krisana Rungrojwanich. The presenters were Samuel J. Gulayan – Mangrove Rehabilitation Using *Rhizophora* sp. in North-eastern Bohol, Philippines, Rizaldy Mercadal – Floristic Inventory of the Proposed Site for Tarsier Tourism Center in Villa Aurora, Bilal, Bohol, Philippines, Yuri Yamazaki – Characteristics of Ion Components in River Water with Multivariate Analysis and Piper Diagram in Agricultural Area, Anan Polthanee – Pre-or-Post Mungbean Production with Chemical and Biological Extract Fertilizer Under Rainfed Conditions.

The third session was chaired by Dr. Kingshuk Roy and Prof. Judith Ty-Pelobello. The presenters were Christeodoflor A. Ramos – Detection of *Escherichia coli* from Mangrove Clams *Anodonta edentula*, Jeeranuch Sakhamduang – Evaluation on Agro-forestry Systems in Salt Affected and Non-salt Affected Areas, Maria Labonite – Farm Machineries and Equipment Needs Assessment of the Corn Block Farming in Dagohoy, Bohol, Central Philippines, Basis for Financial and Support Services, and Maria Danesa Rabia – Fattening of Mud Crab *Scylla serrata* Forskal in Cellular Bamboo Cages at Different Feed Types.

STUDENTS ON TOUR

Marice R. Estaca

As the students arrive at Bohol Island State University Main Campus, they headed to their first stop--- to Register. Looking around, they headed to their assigned room, Workshop Laboratory of Mrs. Magdalena Magante, to gather, to meet and to have a final run through of the two - day prepared presentation. Sharing of thoughts, insights and suggestions fill the room- busy students on the aim to give and perform their best.

The student on tour presentation consists of 10 Filipino students from all campuses of Bohol Island State University and 10 Japanese students from different prestigious schools of Japan. The students are to share their learnings from their three - day educational and environmental tour in Leyte and Bohol, thus the following observations and learnings on different areas are presented.

First batch of presenters in Integrated Farming System Using Organic Multi-layered Crop Technology were Koji Izumi, Chinatsu Tanabe, Richard Castrodes, Bob Paquinol, and Marc Joseph Batoy. The Technology and Engineering students aim to equip old practices. The goal of meeting the old and young towards elevating small farming ways for a better life with the aid of organic multi-layered crop technology. While the second batch who presented about Environmental Education towards Community Empowerment for Sustainable Development were Misato Seki, Yumiko Kurimoto, Joseph Bautista, Alvin Allelluya, Joseph Degamo. The Filipino and Japanese Education students see the decreasing number of trees because of deforestation. They have seen that our forefathers create a relationship with nature and likewise the nature to our forefathers. Thus, on the scenario of the present generation, people lack awareness on how important our environment is and the only way to develop the sense of awareness is through education through the integration of environmental education.

Third, Innovation in Sustainable Agribusiness for Market Increase in Rural Areas in Developing Countries by Minoru Oda, Koji Watanabe, Koki Toyama, Kathlyn Quion, and Leizl Bonete. The Agriculture, Economics and Business students perceive that farmers have markets but are not fully improved. The farmers tried to search for several ways on how to access these innovations in sustainable agribusiness. One method is through advertisement, thus, the students believed that an innovative way will lead to sustainability.

Last, Reforestation Farming by Momoka Yao, Hikari Yoshimi, Riichi Furusawa, Edward Bayron, and Meriam Estorgio. The Forestry and Environment Science students' goal is to help preserve biodiversity and sustain human production. The students share the idea that Reforestation farming can give an important result or output to the environment and can sustain economical and ecological benefits in generations to generations.

Fully, the students from both countries, Philippines and Japan, learn from each other and are hoping to build a better rapport with each other. Mr. Koji Miwa leads the students to these learnings.

6th International Conference on Environmental and Rural Development

Antonieta O. Ocaña, Ph.D.

Bohol Island State University Main Campus hosts the 6th International Conference on Environmental and Rural Development on March 7, 2015.

The oral presentation on Education for Sustainable Development of the said international conference was held in Room 1 of BISU Main Campus. The parallel session started at 10:50 in the morning. The chairman, Dr. Tomas D. Reyes, Jr. with the co-chairman, Dr. Marina A. Labonite headed the session. The different oral presenters with the title of their research paper are as follows; Bernabe M. Mijares et.al., "Installing Religious Images in the Seawaters of Bien Unido: A Saving Act or a Sacrilege?", Haji Mashudi, "The authority conflict Placement and Protection of Indonesian Workers Abroad Based Employment Law", Marina S. Apilado et.al., "Awareness, Knowledge and Attitude on Climate Change of Students: Input for the Development of ICM on Climate Change", and Tadao Yamamoto, "Educational Influence of the Green Tourism School Trip." An open forum was provided for the question and answer portion right after every paper presentation. The assigned chairman and co-chairman awarded the certificate of recognition to all paper presenters. The session ended at 12:00 noon for the lunch break.

The afternoon session started at 1:30 p.m. The oral presentation was led by Dr. Sinisa Berjan and Dr. Tadao Yamamoto as the chairman and co-chairman respectively.

The six oral presenters with their respective research paper; Takahiko Kubodera et.al., "Circumstances of Survey Education Conducted in Japanese Universities", Mario P. Rebucas, Jr., "Instructional Delivery of Integrated Management System at Cebu Technological University", Anucha Wittayakorn et.al., "An Analysis of Off-Season Rice Production Efficiency of Mueng Suphan Buri Agricultural Cooperative Ltd. Members in 2012/2013 Crop Year, Thailand", Atty Tri Juniarti, "The Influence of External Environment on Operation Strategy and Corporate Performance in Indonesian Garment Industries in Indonesia", Anabel T. Pantaleon et.al., "Citrus microcarpa Peel Extracts as Active Reagent for Liquid Hand Wash" and Corazon P. Macachor et.al., "Staphylococcus Aureus from Packed Dried Siganids." A coffee break followed right after the open forum and the awarding of certificate of recognition to the presenters.

The third session was headed by the chairman, Prof. Dr. Anan Polthanee and the co-chairman, Dr. Julian E. Torillo, Jr. at 3:00 p.m. The title of the three research paper are as follows: "Tube stamp for mechanical intra row, close to crop weed control of carrots (*Daucus carota*) in organic farming", "GIZ/CTU-AREC Solar Lantern" and "Problems in Rural Areas of Bosnia, Montenegro and Serbia: A Comparative Analysis." The said researches were presented by Dieter Trautz et.al, Paul K. Zabala et.al and Sinisa Berjan et al. respectively. Awarding of the certificate of recognition to the oral presenters by the chairman and co-chairman followed after the open forum. The afternoon session ended at 4:30 p.m.



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