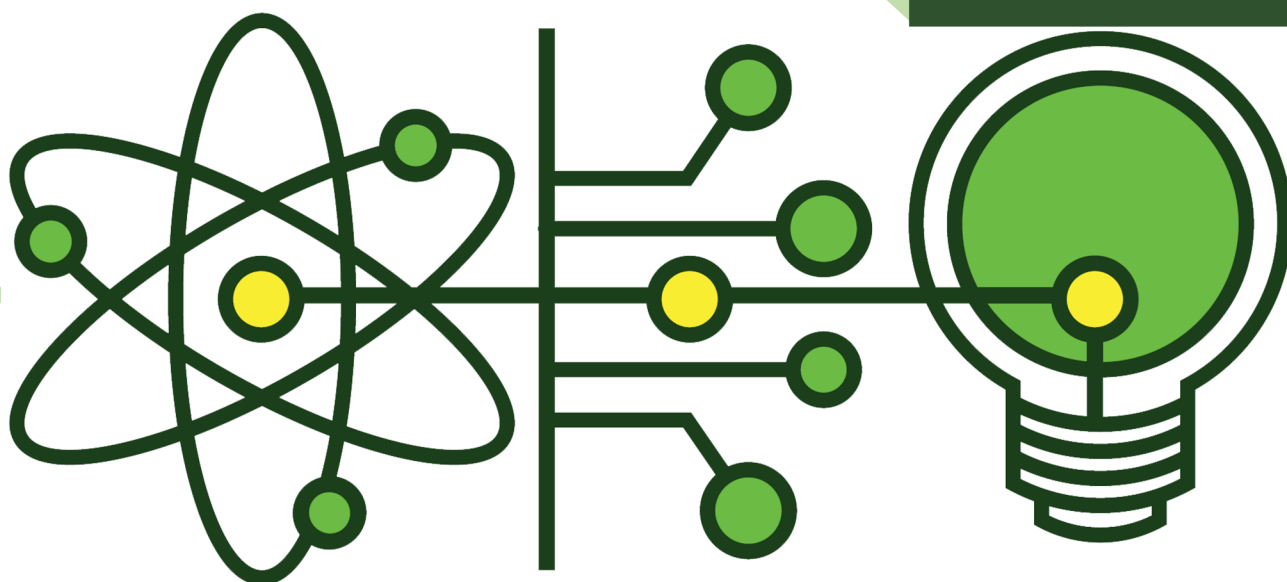


# 17<sup>th</sup> Conference of the Science Council of Asia



## SCIENCE, TECHNOLOGY, and INNOVATION FOR INCLUSIVE DEVELOPMENT

### PROGRAM OF ACTIVITIES

June 14-16, 2017  
Philippine International Convention Center  
Roxas Boulevard, Pasay City, Philippines

Organized by:



# PROGRAM OF ACTIVITIES

## *17th Conference of the Science Council of Asia*

### **Science, Technology, and Innovation for Inclusive Development**

June 14-16, 2017  
Philippine International Convention Center  
Pasay City

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# MESSAGES



## Message

I would like to extend my warm greetings to the participants of the 17<sup>th</sup> Science Council of Asia (SCA) Conference, jointly organized by the National Research Council of the Philippines (NRCP) and the Science Council of Japan (SCJ).

This year's theme, "Science, Technology, and Innovation for Inclusive Development" is timely given the ASEAN Vision 2020 wherein leaders are aiming for a community of nations with shared stability and prosperity. One way to achieve this is by recognizing the vital role of science, technology, and innovation in achieving inclusive growth - a concept of accelerated economic growth that is responsive to the nations' rapid population growth, geographical differences, cultural diversity, and social complexity. The vision of the Philippine national leadership of reducing inequality, creating new opportunities, and expanding the potential for growth supports this concept.

This conference involves a conglomeration of great scientific minds from countries across Asia and the world. It is expected to set in motion the exchange of bright ideas and innovative approaches in redesigning research to achieve effectual inclusive growth - best exemplified in six (6) plenary paper presentations of foreign and Filipino scientists, along with over 140 technical papers which will be presented during the conference.

I welcome all delegations of researchers, scientists, technologists, and innovators to this prestigious event. Let us take advantage of this opportunity to discuss ideas on improving lives, reshaping economic growth, and revolutionizing practices in various science and technology fields.

*Mabuhay!*

**PROF. FORTUNATO T. DE LA PEÑA**  
Secretary  
Department of Science and Technology



## Message

It is a great privilege and an honor for me to greet you all on behalf of the Science Council of Asia here in this Pasay City, Philippines. We are very grateful to Prof. Edgardo D. Gomez, President, National Research Council of the Philippines for his kind invitation. Our Assembly in this vibrant metropolis, with the scientists and decision makers of the Philippines, aims to address a number of scientific themes. The theme of the conference "Science, Technology and Innovation (STI) for Inclusive Development" clearly states our goal to learn about the role of science, technology & innovation, the landscape of the Philippines and expose the STI of this country to the aspects of the STI landscape in SCA member countries. We have come here to learn. To learn how this country has managed to develop the capacity to such a stable economy. Moreover, we are keen to understand how the Philippines has managed the natural calamities and maintained the high rate economic growth.

Science and Technology are tools for socioeconomic advancement. For science to blossom, it needs to be nourished and supported. Development is required for every individual, to every nation in all aspects and for development to happen, science and technology go hand in hand. For any successful economy, particularly in today's quest for knowledge based economies, science, technology, and engineering are the basic requisites. If nations do not implement science and technology, then the chances of getting themselves developed become minimal and thus could be even rated as an undeveloped nation. Science and Technology are associated in all means with modernity and it is an essential tool for rapid development. It is known to all of us NRCP is committed to promote and support basic and problem-oriented research, particularly the inter/multidisciplinary in the science as well as in the humanities to identify and provide solutions to national issues and problems. It also aims to develop value-adding technologies. These aims are almost common to the majority of our member countries.

As such SCA has made a common platform for the scientists of member organizations to work shoulder to reach these common objectives.

The Science Council of Asia (SCA) is comparatively a young organization and is keen to champion the cause of science for development especially through capacity building, knowledge sharing and promotion of international and regional cooperation.

I thank all the organizers including Prof. Edgardo D. Gomez, President, National Research Council of the Philippines for working hard to make the 17th Conference of the Science Council of Asia a complete success.

**PROF. EMERITUS DR. AMINUL ISLAM**  
President  
Science Council of Asia



## Message

It is a great pleasure to welcome you to the 17th Science Council of Asia (SCA) Conference, an annual event where renowned scientists and researchers from countries across Asia meet and share their wisdom and communicate their respective research experience across the region.

This year's theme "Science, Technology, and Innovation for Inclusive Development" is timely and is very relevant as Asian Leaders in the recently concluded ASEAN summit declared inclusive development as their mantra.

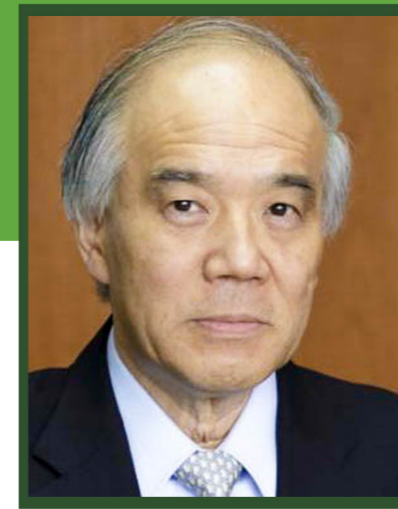
We hope, with this 3-day conference, we could come up with policy statements or recommendations which may spell out how science, technology, and innovation be utilized effectively and efficiently in realizing this Asian mantra – prosperity for all.

Several papers along the lines of biotechnology, eco-environment studies, gender integration and mainstreaming in S&T innovations, human and animal health, re-engineering research, and risk reduction in natural disasters will be presented to give us the perspective of current research initiatives of Asian scientists and researchers which may be useful in developing new research frameworks beneficial to all of us – one region, ASIA.

We would not have had this 17th SCA today if it were not for the people who exerted so much effort since we accepted hosting the conference. Thus, I would like to specially acknowledge the Officials and Members of the Science Council of Japan, the members of the various 17th SCA Conference committees composed of the members of the NRCP Governing Board, and of course the members of the NRCP Secretariat for their behind-the-scenes enabling efforts.

Congratulations!

**NATIONAL SCIENTIST EDGARDO D. GOMEZ**  
Vice-President  
Science Council of Asia



## Message

It is my great honor to welcome you to 17th Conference of Science Council of Asia (SCA) in the Philippines. I would like to express my heartfelt gratitude to the National Research Council of the Philippines for their great efforts and support in hosting this conference. Recently, the world is confronted with various global challenges, such as environmental problems, health problems, large-scale natural disasters, and so on. We need to address these issues while raising economic productivity and prosperity in order to realize an affluent society. It becomes desirable to solve the complicated issues which seem to be contrary to each other all at once.

In 2015, "Sendai Framework for Disaster Risk Reduction 2015-2030", "Sustainable Development Goals (SDGs)", and "Paris Agreement at COP21" are adopted by international forums, such as the United Nations. It means that the importance of science and technology further increases all over the world in order to achieve international goals for a wide range of issues, such as the SDGs. Especially, endeavour beyond specific disciplines and transdisciplinary activities with various stakeholders attract more attentions. In this regard, Asia embraces very diverse regions, and issues that these regions are faced with are also complicated and wide-ranging. Therefore, profound discussions on these complicated problems in Asia will give us the knowledge to solve similar issues in the world, accomplishing an inclusive society.

As the theme of this conference is "Science, Technology, and Innovation for Inclusive Development", this conference will address straightforwardly the issues the world is now concerned about very much. This conference will have deep discussions with distinguished scientists from Asia on how to apply science, technology, and innovation to develop an inclusive society, including some introduction to the activities of Future Earth, which is an important international scientific program. SCA's advantage is to cover a larger member region and various scientific fields in Asia. It is the important platform to tackle the issues and make use of benefit of science and technology in the Asian society through the network of Asia's scientific community.



## Message



Science Council of Japan (SCJ), which was established in 1949 as a special organization of the government to represent Japan's scientific community, has contributed to SCA's activities through organizing forums and serving as the Secretariat, in order to promote cooperation in Asia's scientific development since the period of the Asian Conference on Scientific Cooperation (ACSC), the predecessor of SCA. SCJ aims at strengthening Asia's science and technology and its presence in the world scientific community through the activities of SCA.

I am sure that this conference will bring about fruitful results with the participation of the distinguished scientists. Lastly, I would like to sincerely appreciate all the efforts of the National Research Council of the Philippines and generous support of the Department of Science and Technology of the Philippines.

**PROF. TAKASHI ONISHI**  
President  
Science Council of Japan

I am very pleased to extend my deepest gratitude to the men and women who made this 17th Science Council of Asia Conference possible – the members and officials of NRCP Governing Board, the NRCP Secretariat, the Science Council of Japan (SCJ) and those from the various research councils and academies of the member countries of the Science Council of Asia (SCA), who, in one way or another, contributed in pulling together this momentous scientific endeavor.

This is an exciting time for us because as much as we have always worked towards development, we are now progressing into an era where collective action is called for, specifically for a better Asia. This year's theme – Science, Technology, and Innovation for Inclusive Development, ascertains our vital role in ensuring the inclusion of the marginalized sector in our pursuit for novel and science-based knowledge and mechanisms towards the attainment of a people-based sharing of economic gains.

To provide enriching new and brilliant ideas on this year's theme, the members of the organizing committee meticulously selected the finest 124 contributed papers from among the 440 submissions – the full papers will be presented in the four parallel sessions spread over this three-day conference.

We are grateful for your participation in this conference as it signals your strong commitment to contribute to the Asian goal of inclusive development. Our presence in this gathering gives us the opportunity to share our ideas and expertise, valuable inputs that will help achieve in realizing a more economically resilient and technologically advanced Asia – one wherein most people will enjoy more quality of life and one where opportunities will be open to everyone. May this event be our bridge towards establishing networks among peers, not only across Asia but the world as well.

To our foreign participants and guests, we hope you will have a fruitful and memorable stay here in Manila.

Maraming salamat at Mabuhay!

**PROF. CHRISTINA A. BINAG**  
President  
National Research Council of the Philippines



## Message

On behalf of the Members of the Management Staff of the National Research Council of the Philippines, I would like to welcome fellow research associates to this 17th Science Council of Asia (SCA) Conference.

One of the primary goals of this annual scientific conference is to foster interaction among researchers, scientists, technologists, and innovators from SCA member countries to stimulate knowledge sharing towards economic growth and well-being of Asian people.

The theme for this year's conference, Science, Technology, and Innovation for Inclusive Development, will serve as an avenue for us to share with our colleagues the latest ideas and developments in the area of science, technology, and innovation, so that we can build upon these ideas and updates collectively, to realize our goal of becoming progressive nations of Asia.

The 3-day conference will feature six world-renowned plenary speakers and 124 research outputs, classified in six thematic strands. Likewise, a total of 301 technical posters will be exhibited to give us a glimpse of the latest knowledge and innovative ideas.

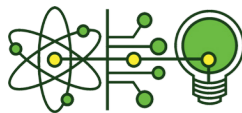
We hope that this year's conference will be an instrument to help us achieve the vision for Asian nations – competitive, inclusive and with a great sense of community. May we continue to find ways to effectively and efficiently utilize science, technology, and innovation for the people, for the nation, for One Asia.

Again, thank you for coming and participating.

Mabuhay!

**PROF. MARIETA BAÑEZ SUMAGAYSAY**  
Executive Director  
National Research Council of the Philippines

# PROGRAM OF ACTIVITIES



13 June 2017 | Tuesday

1:00PM

**ON-SITE REGISTRATION**

D Registration Area

**DAY 1**

14 June 2017 | Wednesday

8:00 - 9:15

**GENERAL REGISTRATION**

D Registration Area

9:15 - 9:30

**OPENING CEREMONIES**

Meeting Room 1, 3<sup>rd</sup> Floor

**ECUMENICAL INVOCATION & PHILIPPINE NATIONAL ANTHEM**

Prof. Ramon G. Acoymo

Chair - Voice, Music Theater and Dance Department

College of Music, University of the Philippines Diliman, Philippines

9:30-9:45

**WELCOME REMARKS**

Prof. Christina A. Binag

President, National Research Council of the Philippines

9:45-10:05

**OPENING MESSAGES**

Prof. Mesbahuddin Ahmed

Secretary, Bangladesh Academy of Sciences, Dhaka, Bangladesh

*On behalf of Professor Aminul Islam*

*President, Science Council of Asia*

Prof. Keisuke Hanaki

Vice-President for International Activities, Science Council of Japan, Tokyo, Japan

*On Behalf of Professor Takashi Onishi*

*President, Science Council of Japan*

10:05-11:35

**KEYNOTE MESSAGES**

Prof. Fortunato T. de la Peña

Secretary, Department of Science and Technology, Taguig City, Philippines

Prof. Toshio Koike

Director, International Centre for Water Hazard and Risk Management (ICHARM)

Public Works Research Institute (PWRI), Tsukuba City, Japan

11:35 - 12:00

**OPENING OF POSTER EXHIBIT**

Lobby Area, 3<sup>rd</sup> Floor

12:00 - 1:00

**LUNCH**

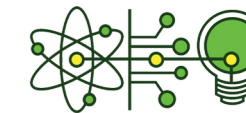
Meeting Room 1, 3<sup>rd</sup> Floor

12:00 - 2:15

**POSTER SESSION 1**

**Viewing of Poster Exhibits**

Lobby Area, 3<sup>rd</sup> Floor



2:15 - 3:00

**PLENARY SESSION 1** - Meeting Room 1, 3<sup>rd</sup> Floor

**The Body and the Wound: Some Reflections on the Meaning of Research and the Human Being**

Prof. Anthony M. Juan, Jr.

University of Notre Dame, South Bend, Indiana, USA

**Session Chair:**

Dr. Nang Mya Han

Myanmar Academy of Arts and Science, Yangon, Myanmar

3:00 - 5:00

**PARALLEL SESSION 1**

**STRAND 1A: Re-engineering Research (in the Humanities, Social Sciences and Governance and Education) towards Inclusive Growth**

Summit Hall C, 4<sup>th</sup> Floor

**Session Chair:**

Dr. Raul V. Destura

Chair, Division of Medical Sciences, National Research Council of the Philippines, Taguig City, Philippines

**Challenges in the Conduct of Genetics Research Involving Philippine Indigenous Peoples**

Maria Corazon A. De Ungria

DNA Analysis Laboratory, Natural Sciences Research Institute

University of the Philippines Diliman, Quezon City, Philippines

**A Phenomenology of ICT Scarcity: Lived Experiences of Instructional Leaders in the Philippine Basic Education Schools**

Jonathan R. Adanza

St. Dominic College of Asia, Bacoor City, Cavite, Philippines

**How can State Universities Develop an Enterprise? Reforms to Building Viable Livelihoods Among Poor Communities**

Rowena DT. Bacongus

University of the Philippines Los Baños, College, Laguna, Philippines

**A Study on Potential of Industrial Clusters in Vietnam - Focusing Around on Quang Trung Software City in IT Industry**

Tetsuro Saisho

Kokushikan University, Tokyo, Japan

**Science Education for Citizenship and for Social Justice: The Case of Elementary Science Education in Japan**

Vicente C. Handa

West Visayas State University, Iloilo City, Iloilo, Philippines

**Activity and Stability of Mixed Conductive Oxide: The Role of Composite Structures and Compositions**

Deni Shidqi Khaerudini S. Si

Research Center for Physics, Indonesian Institute of Sciences, Jakarta, Indonesia

**Cultural Factors of Lisu Ethnic Tribe in Kachin State**

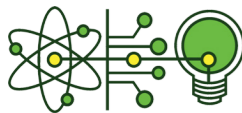
Khin Saw Nwe

University Campus, University of Yangon, Yangon, Myanmar

**Poems on Bicol as Hispanic Heritage: Inputs in Teaching Philippine Literature as History**

Sherill A. Gilbas

Sorsogon State College, Sorsogon City, Philippines



## **STRAND 2A: Eco-environmental Studies and Ecological Engineering**

Summit Hall D, 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Carlos Primo C. David

Executive Director, Philippine Council for Industry, Energy and Emerging Technology Research and Development - Department of Science and Technology, Taguig City, Philippines

### **Gaseous Elemental Mercury Chemiresistor Sensor Based on a Gold Thin Film Electrode**

Jose H. Bergantin, Jr.

Research Center for the Natural and Applied Sciences, University of Santo Tomas, Manila, Philippines

### **Photodegradation of Methylene Blue in Water using Metal oxide Semiconductor Thin-Films**

Arven I. Café

National Institute of Physics, University of the Philippines Diliman, Quezon City, Philippines

### **Retrofitting a Philippine Detached Family House to Make it Energy Efficient and Energy Generating**

Napoleon Enteria

Building Research Institute, Tsukuba City, Ibaraki, Japan

### **Insecticidal Effect of the Methanol-Chloroform Extract of Oyster Mushroom (*Pleurotus ostreatus*) Against Orange-Spotted Cockroaches (*Blaptica dubia*)**

Ma. Gelli Anne B. Escobar

St. Dominic College of Asia, Bacoor City, Cavite, Philippines

### **Performance Comparison Study of Biodiesel Tubers Porang (*Amorphophallus oncophyllus*) with Biodiesel Soybean Oil (Soybean Oil) Based Experiments**

Aguk Zuhdi Muhammad Fathallah

Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

### **Valuation of Mangroves as a Coastal Defence against Storm Surge**

Wesley S. Gagarin

School of Environmental Science and Management, University of the Philippines Los Baños, College, Laguna, Philippines

### **Development of BELDA (Building Energy Structure and Lifestyle Database of Asia): Preliminary Results of Questionnaire Survey and Database Building Protocol**

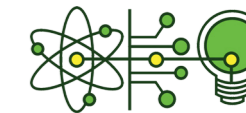
Jennifer Hsieh

Department of Architecture, Faculty of Science and Engineering, Waseda University, Tokyo, Japan

### **Development of BELDA: Prediction of Residential Energy Consumption in Cambodia**

Kengo Ichijima

Waseda University, Tokyo, Japan



## **STRAND 3A: Human Health and Biotechnology**

Summit Hall E, 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Vicente Belizario, Jr.

Professor/University Scientist, University of the Philippines Manila, Philippines

### **What Predicts the Malnutrition Among a Select Group of Filipino Elderly in Institutionalized Setting? A Partial Least Square (PLS) study**

Arienne Sherie L. Agustin

Nutrition and Dietetics Department, College of Education, University of Santo Tomas, Manila, Philippines

### **Factors Affecting Occurrence of Dengue Fever in Major Cities of Southeast Asia**

Masaki Ida

Graduate School for International Development and Cooperation, Hiroshima University

Hiroshima City, Hiroshima, Japan

### **Synthesis and Biological Studies of Substrate-based Probes of Galactofuranosyltransferase 1 (GlfT1) Towards Understanding *Mycobacterium tuberculosis***

Gladys C. Completo

Institute of Chemistry, University of the Philippines Los Baños, College, Laguna, Philippines

### **DOST Mosquito Ovicidal/Larvicidal (OL) Trap System: A Tool in Assisting Reduction of Dengue Incidence in 2011 Nationwide**

Annabelle V. Briones

Industrial Technology Development Institute, Department of Science and Technology, Taguig City, Philippines

### **Particle Swarm Optimization Trained Neural Network for Medical Diagnosis**

Orven E. Llantos

Mindanao State University-Iligan Institute of Technology, Iligan City, Lanao del Norte, Philippines

### **Mathematical Dengue Model Providing Insights on the Transmission Dynamics in the Philippines**

Jose Maria L. Escaner IV

Institute of Mathematics, College of Science, University of the Philippines Diliman, Quezon City, Philippines

### **Study on the Summer Thermal Comfort in Temporary Shelters in Nepal after Massive Earthquake 2015**

Rita Thapa

Tokyo City University, Tokyo, Japan

### **Factors Affecting Residential Energy Consumption from the Viewpoint of People's Lifestyle and Quality of Life: Case Studies of Thailand and Vietnam**

Ji Xuan

Jyukankyo Research Institute Inc., Tokyo, Japan



## **STRAND 4A: One Health: Connecting Human, Animal, and Ecosystems Health**

Summit Hall F, 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Reynaldo V. Eborá

Executive Director, Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development - Department of Science and Technology, Los Baños, Laguna, Philippines

### **Pili (*Canarium ovatum*, Engl.) Pomace: a Novel and Potential Functional Food Ingredient**

Elizabeth H. Arenas

Department of Food Technology, College of Education, University of Santo Tomas, Manila, Philippines

### **Determination of *P. Aeruginosa* and *B. Cereus* in the Nile Tilapia (*Oreochromis Niloticus*): An Analysis in the East and West Sites of Laguna De Bay, Philippines**

Allyssa M. Cruz

St. Dominic College of Asia, Bacoor City, Cavite, Philippines

### **Phytochemical Screening and In-vitro Evaluation of the Antioxidant and Morpho-Cytotoxic Activity of *Nauclea orientalis* (L.) Lin.**

Maingelline B. Vivit

Mariano Marcos State University, Batac City, Ilocos Norte, Philippines

### **In-vitro Evaluation of the Ascaricidal Properties of the Hydroethanolic and Ethanolic of *Pleurotus ostreatus* (Oyster Mushroom)**

Gaile Ann E. Gamit

St. Dominic College of Asia, Bacoor City, Cavite, Philippines

### **Ecosystem Health of Myeik Archipelago, Southern Coast of Myanmar**

Nang Mya Han

Department of Marine Science, Myeik University, Myeik, Myanmar

### **Gold Nanoparticle-based Probes for the Colorimetric Detection of *Mycobacterium avium* Subspecies *Paratuberculosis* DNA**

Claro N. Mingala

Philippine Carabao Center, Muñoz City, Nueva Ecija, Philippines

### **Study on Firewood Use Pattern in Different Ecological Regions in Nepal**

Tika Ram Pokharel

Tokyo City University, Tokyo, Japan

### **Study on the Winter Thermal Environment and Its Relation to Human Health in the Himalayan and Terai Regions of Nepal**

Gautam Basudev

Tokyo City University, Tokyo, Japan

4:00 - 6:00

### **MANAGEMENT BOARD MEETING 1**

Banquet Hall 3, 2<sup>nd</sup> Floor

6:00 - 8:00

### **WELCOME DINNER AND CULTURAL NIGHT (by Invitation only)**

hosted by NRCP and Department of Tourism

Meeting Room 5, 2<sup>nd</sup> Floor



## **DAY 2**

15 June 2017 | Thursday

8:15 - 9:00

**PLENARY SESSION 2** - Meeting Room 1, 3<sup>rd</sup> Floor

### **Preparing for the Big One: The Case of the Greater Metro Manila Area**

Dr. Renato U. Solidum, Jr.

Undersecretary, Disaster Risk Reduction and Climate Change

Department of Science and Technology, Taguig City, Philippines

### **Session Chair:**

Dr. Vijaya Kumar

Immediate Past President, SCA

Immediate Past President, National Academy of Science of Sri Lanka, Colombo, Sri Lanka

9:00 - 9:45

**PLENARY SESSION 3** - Meeting Room 1, 3<sup>rd</sup> Floor

### **Disaster Risk Reduction in Nepal: Its Retrospect and Prospect**

Prof. Jiba Raj Pokharel

Nepal Academy of Sciences and Technology, Kathmandu, Nepal

### **Session Chair:**

Dr. Filemon A. Uriarte, Jr.

Member-at-Large and Former President, National Research Council of the Philippines, Taguig City, Philippines

9:45 - 11:45

**PARALLEL SESSION 2**

## **STRAND 5A: Gender Integration and Mainstreaming in S&T Innovations**

Summit Hall C, 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Maria Helen F. Dayo

President, Women's Studies Association of the Philippines, Manila, Philippines

### **Understanding the Reasons for the Leaky Pipeline in STEM**

Merlyne M. Paunlagui

Institute for Governance and Rural Development, College of Public Affairs and Development,

University of the Philippines Los Baños, College, Laguna, Philippines

### **Women in Technological Innovation: A Case Study of Woman as Inventor in LIPI**

Maidina Maidina

Indonesian Institute of Science, Jakarta, Indonesia

### **Gender Differences in Research Productivity of Science Teachers**

Sherryl M. Montalbo

Batangas State University, Batangas City, Batangas, Philippines

### **Gender Differences in Mathematics Skills and Performance of Public Secondary Students**

Emil C. Alcantara

Batangas State University, Batangas City, Batangas, Philippines

### **Gender Differential Roles in Organic Agriculture (OA) Adoption in Selected Municipalities in the Philippines**

Edna Luisa A. Matienzo

Agricultural Systems Institute, College of Agriculture and Food Science

University of the Philippines Los Baños, College, Laguna, Philippines

### **Reversing Gender Inequalities Through Technical Vocational Education and Training**

Amaryllis T. Torres

Executive Director, Philippine Social Science Council, Diliman, Quezon City, Philippines



## **STRAND 6A: Disaster Risk Reduction of Natural Disasters caused by Climate Change, Earthquake and Tsunami**

Summit Hall D , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Edanjarlo J. Marquez

Chair, Division of Earth and Space Sciences, National Research Council of the Philippines

Taguig City, Philippines

### **UAV to Ground Team and Vehicle Hub Cooperative Missions with Delay Tolerant Information Flows for Post Disaster Decision Support Systems**

Gemalyn D. Abrajano

Ateneo Innovation Center, Ateneo de Manila University, Quezon City, Philippines

### **Flood Risk Assessment with High Spatial Resolution for Flood Disaster Mitigation under Climate Change Scenario**

Apip

Research Center for Limnology, Indonesian Institute of Sciences, Jakarta, Indonesia

### **Analysis of Disaster Risk Reduction and Management Plans and Practices Related to Resilience to Flooding of Urban Water System in Davao City**

Della Grace G. Bacaltos

Southern Philippines Agri-Business Marine and Aquatic School of Technology, Davao City, Davao, Philippines

### **Landslide Warning System Web Application using Satellite-based Rainfall: A Proto-type Project under the Sentinel Asia in the Philippines**

Arturo S. Daag

Philippine Institute of Volcanology and Seismology - Department of Science and Technology, Quezon City, Philippines

### **A Proposed Flood Control Program for Gandara River**

Lady Ann M. Fabillar

Samar State University, Catbalogan City, Samar, Philippines

### **Political Leadership and Disaster Management in the Philippines: The Experiences of Two Municipalities**

Jan Robert R. Go

Department of Political Science, University of the Philippines Diliman, Quezon City, Philippines

### **Participatory Assessment of Community Capacities and Vulnerabilities - Towards the Realization of Community-based Early Warning System for Deep-seated Landslides**

Brian Anthony L. Gumiran

Philippine Institute of Volcanology and Seismology - Department of Science and Technology, Quezon City, Philippines

### **Application of Disaster Risk Assessment to Typhoon Disaster Risk Reduction**

Sammy Boy B. Jatiko

Philippine Atmospheric, Geophysical and Astronomical Services Administration -

Department of Science and Technology, Quezon City, Philippines



## **STRAND 1B: Re-engineering Research (in the Humanities, Social Sciences and Governance and Education) towards Inclusive Growth**

Summit Hall E , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Leslie E. Bauzon

Vice-President, National Research Council of the Philippines

Chair, SCA Steering Committee

Taguig City, Philippines

### **Factors on Community Investment-based Small Scale Irrigation Development in Indonesia (Case of West Nusatenggara)**

Rita Nur Suhaeti

Center for Agro-Socio Economic and Policy Studies, Ministry of Agriculture, Jakarta, Indonesia

### **Enhanced Acceleration Technology Transfer Strategy Through Technopark Development Towards Inclusive Agriculture Development**

Ferianto

Center for Innovation-Indonesian Institute of Sciences, LIPI, Jakarta, Indonesia

### **Rhetorical Relations to Punctuation Marks in Research Articles in the Context of Myanmar**

Ni Ni Hlaing

Mandalay University of Distance Education, Ministry of Education, Naypyidaw, Myanmar

### **Philippine Technocracy and Class Politics in Policy-making**

Teresa E. Tadem

Department of Political Science, College of Social Sciences and Philosophy,

University of the Philippines Diliman, Quezon City, Philippines

### **Analysis of Inclusive Development Policies in Nepal since 1990**

Motoko Shuto

University of Tsukuba, Tsukuba City, Japan

### **Encouragement of Significant Persons : A Grounded Theory Study on Academic Success**

Evelyn C. Bagaporo

Philippine Normal University, Manila, Philippines

### **A Research of Higher Education According to Students' Learning Transition in the Universities: Focusing on the Classes for Science, Technology, and Society**

Akinori Yamabe

Jichi Medical University, Shimotsuke City, Tochigi, Japan

### **Finding the Right Model for Transferring Renewable Energy in Developing Country**

Yovita Isnasari, Maidina and V. Susirani Kusumaputri

Center for Innovation, Indonesian Institute of Sciences



## **STRAND 2B: Eco-environmental Studies and Ecological Engineering**

Summit Hall F , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Arnel A. Salvador

Chair, Division of Physics, National Research Council of the Philippines

Taguig City, Philippines

### **Predicting the Distribution of Native Chicken in Samar**

Nemesio Francisco M. Napuran

Northwest Samar State University, Samar, Philippines

### **Development of Adaptive Model for Thermal Comfort in HEMS Condominium**

Hom Bahadur Rijal

Tokyo City University, Tokyo, Japan

### **Assessment of the External and Photic Parts of the Caves in Camotes Island, Central Philippines – Basis for Conservation and Sustainability Options**

Serapion N. Tanduyan & Heizel Faith L. Gorgonio

Cebu Technological University, Cebu City, Philippines

### **Genetic Map of the Protected Bird in Indonesia: Little Spiderhunter (*Arachnothera longirostra Nectariniidae*)**

Dwi Astuti

Division of Zoology, Indonesian Institute of Sciences, Cibinong, West Java, Indonesia

### **Zinc Oxide and Aluminum Nitride Thin Films as Pyroelectric Energy Harvesters**

Catherine B. Tugado

Materials Science and Engineering Program, College of Science

University of the Philippines Diliman, Quezon City, Philippines

### **Detection of Methylene Blue Using Silver Coated Porous Silicon as Surface-Enhanced Raman Scattering (SERS) - Active Substrate**

Lorenzo P. Lopez, Jr.

Materials Science and Engineering Program, University of the Philippines Diliman, Quezon City, Philippines

### **Medium-Term Water Consumption Forecasting using Artificial Neural Networks**

Lemuel Clark P. Velasco

Mindanao State University – Iligan Institute of Technology, Iligan City, Lanao del Norte, Philippines

### **Turmeric Dye-based Colorimetric Sensor for Fish Freshness**

Christopher Jude T. Vergara

Materials Science and Engineering Program, University of the Philippines Diliman, Quezon City, Philippines

11:45 - 1:15

### **POSTER SESSION 2**

#### **Viewing of Poster Exhibits**

Lobby Area, 3<sup>rd</sup> Floor

12:00 - 1:15

### **LUNCH**

Meeting Room 1, 3<sup>rd</sup> Floor

1:15 - 2:00

### **PLENARY SESSION 4 - Meeting Room 1, 3<sup>rd</sup> Floor**

#### **Innovation and Inclusive Development That Embodies Gender Equality:**

#### **What Works and What Might Work**

Dr. Meryl J. Williams

Asia-Pacific Fish Watch, Selangor, Malaysia

### **Session Chair:**

Dr. Amaryllis T. Torres

Executive Director

Philippine Social Science Council, Quezon City, Philippines

2:00 - 4:00

### **PARALLEL SESSION 3**

## **STRAND 3B: Human Health and Biotechnology**

Summit Hall C, 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Isidro C. Sia

Professor, University of the Philippines Manila

Manila, Philippines

### **Inhibitory Activity of a New Alkaloid in Latently HIV Infected Cells**

Ma. Sheila M. de Jesus

The Graduate School, University of Santo Tomas, Manila, Philippines

### **Preparation and Characterization of Chitosan and Chitosan/Polypyrrole Films for Bone Tissue Engineering**

Sittie Zuleiha S. Salik

The Graduate School, University of Santo Tomas, Manila, Philippines

### **The Moderating Effect of Physical Activity on the Food Intake and Nutritional Status of Filipino Elderly Priests and Nuns**

Allan B. De Guzman

Nutrition and Dietetics Department, College of Education, University of Santo Tomas, Manila, Philippines

### **Skin Wound Healing and Dermal Irritation Studies of *Cocos nucifera* L. (Coconut) Endosperm in BALB/c Mice**

Erna C. Arollado

Institute of Pharmaceutical Sciences, National Institute of Health, University of the Philippines Manila, Philippines

### **Simulated Laparoscopic Training and Measurement Systems Based on a Low-cost EMG Armband with Integrated Web-based Logging and Analysis System**

Harold Jay M. Bolingot

Ateneo de Manila University, Quezon City, Philippines

### **“Traditional Knowledge” and “Chinese Traditional Medicine” concerning ABS: Political Mistranslation by Chinese Government and Japanese Government**

Tsutomu Inamura

University of Ryukyus, Naha, Okinawa, Japan

### **A Study on Indoor Thermal Environment and Its Associated Occupants Responses in a Hems Condominium**

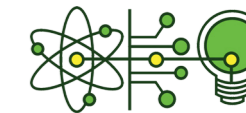
Rajan KC

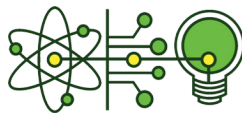
Tokyo City University, Tokyo, Japan

### **CFD Analysis of Japanese Vernacular Architecture in the Historic Villages of Shirakawa-go Considering Regional Topography**

Yuki Ogawa

Hosei University, Tokyo, Japan





## **STRAND 4B: One Health: Connecting Human, Animal, and Ecosystems Health**

Summit Hall D , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Claro N. Mingala

Chair, Division of Veterinary Medicine, National Research Council of the Philippines

Taguig City, Philippines

### **Operationalization of the One Health and Resilience Approach: Practical Transdisciplinary and Trans-systems Interdependencies**

Mary Elizabeth G. Miranda

Field Epidemiology Training Program Foundation, Inc.

### **Transforming Hospitals to Intelligent System for Greening Healthcare in 21st century**

Dongchun Shin

Yonsei University College of Medicine, Seoul, Korea

### **Poultry Antimicrobials in the Philippines: What's the Problem?**

Mildred A. Padilla

College of Veterinary Medicine, Univeristy of the Philippines Los Baños, College, Laguna, Philippines

### **Biosynthesis of Gold Nanoparticles using Lactic Acid Isolated from *Lactobacillus* sp. for Biomedical Applications**

Myla R. Santiago

Research Center for Natural and Applied Sciences, University of Santo Tomas, Manila, Philippines

### **Evaluation of Food Safety Knowledge and Practices of Street Vendors and Microbiological Quality of Selected Street Food in Tacloban City, Leyte**

Irene L. Tan

University of the Philippines Visayas, Tacloban College, Tacloban City, Leyte, Philippines

### **Fourier Harmonic Analysis as Tool in Predicting Bulls with Non-Compensable Fertility Problem**

Danilda H. Duran

Philippine Carabao Center and Central Luzon State University, Muñoz City, Nueva Ecija, Philippines

### **Multidrug Resistant *Escherichia coli* Isolated from Chickens at Slaughter in Batangas and Quezon, Philippines**

Haidee E. Torio

Nueva Vizcaya State University, Bayombong, Nueva Vizcaya, Philippines

### **Effects of Commercially Available Antioxidant in Ovo on Chorioallantoic Membrane, Embryonic Growth and Putative Plasma Vitellogenin of Philippine Mallard (*Anas platyrhynchos domesticus* L.)**

Renato SA. Vega

Institute of Animal Science, University of the Philippines Los Baños, College, Laguna, Philippines

### **Environmental Actual State of the Energy Self-Sufficient Housing in Coastal Area**

Yasuko Yoshino

Department of Architecture & Living Design, Junior College of Nihon University, Tokyo, Japan



## **STRAND 5B: Gender Integration and Mainstreaming in S&T Innovations**

Summit Hall E , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Joy C. Lizada

College of Management, University of the Philippines Visayas

Miagao, Iloilo, Philippines

### **Women's Studies Association of the Philippines (WSAP)**

#### **Building an ASEAN Economic Community: Challenges and Opportunities for Advancing Gender and Women's Studies**

Carolyn I. Sobritchea

Asian Center, University of the Philippines Diliman, Quezon City, Philippines

#### **Japanese Women's Activism as Transnational Women's Movement: Reimagining Solidarity, Partnership, and Cooperation in Asia**

Jeane Cana Peracullo

De La Salle University, Manila, Philippines

#### **Trend Analysis in Science, Technology, Engineering and Mathematics (STEM) Fields Toward Policy Formulation on Gender Mainstreaming**

Zenaida Q. Reyes

College of Graduate Studies and Teacher Education Research, Philippine Normal University, Manila, Philippines

#### **Gender Gap in Science Education: Creating Spaces for STEM**

Maria Helen F. Dayo

Agricultural Systems Institute, College of Agriculture and Food Systems

University of the Philippines Los Baños, College, Laguna, Philippines

### **The National Network on Women in Fisheries in the Philippines (WINFISH)**

#### **Gender-differentiated Perceptions of Typhoon Affected Households in New Washington, Aklan, Philippines**

Jee Grace B. Suyoy

University of the Philippine Visayas and WINFISH, SEAFDEC, Research Institute for Humanity and Nature, Kyoto, Japan

#### **Wanted: Innovations for Enhancing Women's Adaptive Capacity to Climate Variability in Coastal Communities**

Marieta Bañez Sumagaysay

National Research Council of the Philippines, Department of Science and Technology, Taguig City, Philippines

#### **Differentials in the Abalone Supply Chain: The Case of Northern Iloilo, Philippines**

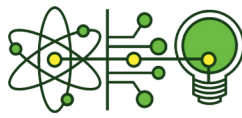
Rowena Paz L. Gelvezon

University of the Philippines Visayas, Miagao, Iloilo, Philippines

#### **Assessing Women's Participation in the Forest Protection and Rehabilitation Project of GIZ in Leon, Iloilo**

Rhodella A. Ibabao

University of the Philippine Visayas and WINFISH, Miagao, Iloilo, Philippines



**STRAND 6B: Disaster Risk Reduction of Natural Disasters caused by Climate Change, Earthquake and Tsunami**

Summit Hall F, 4<sup>th</sup> Floor

**Session Chair:**

Dr. Paciente A. Cordero, Jr.  
Regent, Eastern Visayas State University, Tacloban City, Leyte, Philippines

**EpiNurse: Participatory Monitoring of Health Security and Disaster Risk Reduction by Local Nurses**

Sakiko Kanbara  
University of Kochi, Kochi, Japan

**Seismic Hazards of the Gyeongju Area, Korea**

Kie Hwa Lee  
The National Academy of Sciences, Seoul, Republic of Korea

**Reproductive Health and Post Haiyan Baby Boom**

Ladylyn Lim Mangada  
University of the Philippine Visayas Tacloban College, Tacloban City, Leyte, Philippines

**Exploring the Use of Phenomenological Approach to Understanding Past Earthquake and Tsunami Events**

Ma. Mylene L. Martinez-Villegas  
Philippine Institute of Volcanology and Seismology - Department of Science and Technology, Quezon City, Philippines

**Assessment of Flood Hazard Mapping (FHM) Project in San Juan River Basin**

Marilyn V. Medina  
University of the Philippine Diliman, Quezon City, Philippines

**Development of Earthquake Risk Assessment Method for Office Building for Earthquake Insurance Rate Determination**

Takahiro Tsutsui  
Waseda University, Tokyo, Japan

**Predicting Disaster Contact Preferences for Foreign Residents in Sendai City: A Multinomial Logistics Regression Analysis on Disaster Social Capital**

Lisette R. Robles  
Graduate School of Media and Governance, Keio University, Tokyo, Japan

**Lacquen Foundation Process of Columns, Reconstruction**

Shiomi Saito  
Research Institute for Science and Engineering, Waseda University, Tokyo, Japan



2:00 - 4:30

**JOINT PROJECT WORKSHOP (JPWS)**

hosted by the Science Council of Japan (SCJ)  
Meeting Room 2, 2<sup>nd</sup> Floor

**Chair:**

**Prof. Hiroshi Yoshino**  
Secretary General/Treasurer  
Science Council of Asia, Japan

**Co-Chair:**

**Prof. Christina A. Binag**  
President  
National Research Council of the Philippines, Philippines

**I - Introduction of Two Coastal Ecosystem Conservation Projects for Coral Triangle Areas Funded by SATREPS Program**

Kazuo Nadaoka  
Professor  
Department of Transdisciplinary Science and Engineering  
School of Environment and Society, Tokyo Institute of Technology, Tokyo, Japan

**II - International Collaborative Research on Pediatric Pneumonia between Japan and the Philippines**

Hitoshi Oshitani  
Professor  
Department of Virology, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan

**III - Next Generation Earth Monitoring System with Micro-satellites and Ground-based Networks**

Yukihiro Takahashi  
Professor  
Faculty of Science, Hokkaido University, Sapporo, Hokkaido, Japan

**IV - Multi Stakeholder Collaboration to Achieve Sustainable Development Goals: The Role of Science, Technology and Innovation**

Floradema C. Eleazar  
Programme Manager  
Inclusive and Sustainable Development Unit, United Nations Development Program, Makati City, Philippines

**V - Realizing Asia's Second Green Revolution through International Partnership**

Dr. David Johnson  
Head, Crop and Environmental Sciences Division, International Rice Research Institute, Los Baños, Laguna

4:30 - 6:00

**MANAGEMENT BOARD MEETING 2**

Banquet Hall 3, 2<sup>nd</sup> Floor

6:00 - 7:30

**DINNER (by Invitation only)**

hosted by the Science Council of Japan  
Meeting Room 6, 2<sup>nd</sup> Floor



**DAY 3**  
**16 June 2017 | Friday**

8:15 - 9:00  
**PLENARY SESSION 5** - Meeting Room 1, 3<sup>rd</sup> Floor

**FUTURE EARTH**  
**The Philippine Perspective on Future Earth**

National Scientist Lourdes J. Cruz  
 Past President, National Research Council of the Philippines, Taguig City, Philippines

**Session Chair:**  
 Dr. Hein Mallee  
 Regional Center for Future Earth in Asia  
 Kyoto, Japan

9:00 - 11:30  
**PANEL SESSION ON FUTURE EARTH: AIR POLLUTION AND HUMAN HEALTH IN ASIA**  
 Meeting Room 1, 3<sup>rd</sup> Floor

**Session Chairs:**  
 Dr. Hein Mallee  
 Regional Center for Future Earth in Asia  
 Kyoto, Japan

Dr. Roberto F. Rañola  
 Regional Advisory Committee for Future Earth in Asia  
 Kyoto, Japan

**Air Pollution and Human Health in Asia: Experience in adopting and promoting the systems approach for transdisciplinary research on air pollution and health in Asia**  
 Nordin Hasan  
 Institute for Environment and Development of the Universiti Kebangsaan Malaysia, Selangor, Malaysia, and Regional Advisory Committee for Future Earth in Asia

**Future Earth and Air Pollution**  
 Fumiko Kasuga  
 Global Hub Director – Japan, Future Earth Secretariat, National Institute for Environmental Sciences, Integrated Research System for Sustainability Science (IR3S), The University of Tokyo, Tokyo, Japan

**Air Quality and Health: Indian Perspective**  
 S.K. Satheesh<sup>1,2\*</sup>, K. Krishna Moorthy<sup>1</sup>, S.Suresh Babu<sup>3</sup>  
 Chairman of Divecha Centre, Bangalore, India and Executive Director of the Future Earth South Asia Regional Office  
<sup>1</sup>Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bangalore-560012, India  
<sup>2</sup>Divecha Centre for Climate Change, Indian Institute of Science, Bangalore-560012, India  
<sup>3</sup>Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram-695022, India

**Asian Culture-related Air Pollution Sources and Health Implications**  
 Shih-Chun Candice LUNG  
 Academia Sinica, Taipei, Taiwan, and the Regional Advisory Committee for Future Earth in Asia

**A 7-year National Strategic Research Project on PM<sub>2.5</sub> Studies (2017-2024) in Korea**  
 Soon-chang Yoon  
 Vice President for External Relations, the Korean Academy of Science and Technology, Kyeonggi-do, South Korea and the Regional Advisory Committee for Future Earth in Asia

**Research challenges for air pollution in Asia: Perspectives from International Global Atmospheric Chemistry (IGAC) Project**  
 Hiroshi Tanimoto  
 Center for Global Environmental Research, National Institute for Environmental Studies, Tsukuba, Ibaraki, Japan

**Health Effect of PM<sub>2.5</sub> in China**  
 T. Zhu<sup>1</sup>, Y.Q. Han<sup>1</sup>, J. Liu<sup>1</sup>, X. Tang<sup>2</sup>, and J. Zhu<sup>2</sup>  
<sup>1</sup>College of Environ Sciences and Engineering, Peking University, Beijing, China  
<sup>2</sup>Institute of Atmospheric Physic, Chinese Academy of Science, Beijing, China

11:30 - 1:15  
**POSTER SESSION 3**  
**Viewing of Poster Exhibits**  
 Lobby Area, 3<sup>rd</sup> Floor

12:00 - 1:15  
**LUNCH**  
 Meeting Room 1, 3<sup>rd</sup> Floor



1:15 - 2:00  
**PLENARY SESSION 6** - Meeting Room 1, 3<sup>rd</sup> Floor

**Climate Change: Impacts, Resilience and Adaptation Strategies**  
 Dr. Josefino C. Comiso  
 National Aeronautics and Space Administration (NASA), Washington, DC, USA

**Session Chair:**  
 Engr. Lydia G. Tansinsin  
 ASEAN Academy of Engineering and Technology, Kuala Lumpur, Malaysia

2:00 - 4:00  
**PARALLEL SESSION 4**  
**STRAND 1C: Re-engineering Research (in the Humanities, Social Sciences and Governance and Education) towards Inclusive Growth**  
 Summit Hall C, 4<sup>th</sup> Floor

**Session Chair:**  
 Dr. Maricar S. Prudente  
 Chair, Division of Governmental, Education, and International Policies  
 National Research Council of the Philippines  
 Taguig City, Philippines

**Neoliberal Constraints to National Sovereignty, Democratic Governance, and Development: Cases and Lessons from the Trenches in the Global Struggle Against Neoliberal Globalization**  
 Kenneth E. Bauzon  
 Saint Joseph's College, Brooklyn, New York, USA

**Biodiversity Conservation Through Science Education: Comparing the In-School and After-School Contexts**  
 Maria Rosario Virginia S. Cobar-Garcia  
 College of Science, University of Santo Tomas, Manila, Philippines

**Boat-making Traditions and Technology in Sulu Archipelago**  
 Mucha Shim L. Quiling  
 Zamboanga City State Polytechnic College, Zamboanga City, Zamboanga del Sur, Philippines

**Inclusive Development Paradigm: Interdisciplinarity among Science, Humanism, and Art**  
 Hak-Soo Kim  
 Sogang University, Seoul, Korea

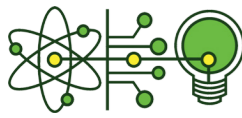
**Three Asian Aesthetic Approaches to the Other War Novel (Pramudya's Perburuan, Castillo's The Firewalkers, and Bhattacharya's So Many Hungers!)**  
 Adelaida F. Lucero  
 Department of English and Comparative Literature, University of the Philippines Diliman, Quezon City, Philippines

**Aspirations of Filipino Rice Farmers for their Children and Philippine Rice Self-Sufficiency**  
 Florencia G. Palis  
 University of the Philippines Los Baños, College, Laguna, Philippines

**Building Sustainable Futures: Lessons from Indigenous Communities in the Margins**  
 Maria Cecilia T. Medina  
 Asian Center, University of the Philippines Diliman, Quezon City, Philippines

**On the Ancient Architectural and City Ruins of Phnom Kulen and quarries in the Surrounding Area in Angkor**  
 Takeshi Nakagawa  
 Waseda University, Tokyo, Japan

**A Social History of 1950s Filipino Film Adaptation**  
 Joyce L. Arriola  
 Faculty of Arts and Letters, University of Santo Tomas, Manila, Philippines



## **STRAND 2C: Eco-environmental Studies and Ecological Engineering**

Summit Hall D , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Alvin B. Culaba  
Faculty, De La Salle University  
Former President, National Research Council of the Philippines  
Taguig City, Philippines

### **Conservation, Assessment of Genetic Diversity and Screening of Phytoactive Compounds of Ginger (*Zingiber officinale* Rosc.) Germplasm at the National Plant Genetic Resources Laboratory**

Maria Lea H. Villavicencio  
National Plant Genetic Resources Laboratory, Institute of Plant Breeding  
University of the Philippines Los Baños, College, Laguna, Philippines

### **Pollen Sources and Some Aspects in the Ecology of *Apis andreniformis* Smith from Select Barangays in Puerto Princesa City, Palawan**

Jacquilyn L. Estrada  
Institute of Biological Sciences, College of Arts and Sciences University of the Philippine Los Baños, College Laguna, Philippines

### **Indigenous Plants and Trees for Food and Agrobiodiversity: The Case of *Dillenia philippinensis* (Katmon)**

Amparo M. Wagan  
Agricultural Systems Institute, College of Agriculture and Food Sciences  
University of the Philippines Los Baños, College, Laguna, Philippines

### **Contribution of Biochars in the Improvement of Soil Health: An Investigation**

Gina V. Pangga  
Agricultural Systems Cluster, College of Agriculture, University of the Philippines Los Baños, Laguna, Philippines

### **Spatio-Temporal Water Quality Changes as Reflections of Land Use Changes and Climatic Variations in Laguna De Bay, Philippines**

Jonathan T. Macuroy  
School of Environmental Science and Management, University of the Philippines Los Baños, College, Laguna, Philippines

### **Effect of Glues and Preservatives on Properties and Durability of Engineered Bamboo (E-bamboo) Boards**

Marina A. Alipon  
Forest Products Research and Development Institute, Department of Science and Technology  
Los Baños, Laguna, Philippines

### **Event History Analysis of Indoor Thermal Environment and Care-requiring Condition of Residents in Nursing Homes**

Yukie Hayashi  
School of Science and Technology, Keio University, Tokyo, Japan

### **The Development of the Quattro Timber Window Make it Easily Possible to Develop Low Cost, Wide Window, Passive Type, Zero Energy House (ZEH)**

Ben Nakamura  
Architectural Institute of Japan, Tokyo, Japan



## **STRAND 5C: Gender Integration and Mainstreaming in S&T Innovations**

Summit Hall E , 4<sup>th</sup> Floor

### **Session Chair:**

Dr. Rowena Paz L. Gelvezon  
Treasurer, National Network on Women in Fisheries in the Philippines, Inc.  
Iloilo City, Iloilo, Philippines

### **The Gender Difference in the Burden of Having Children: Evidence from Life Satisfaction Data**

Tsukasa Matsuura  
Chuo University, Tokyo, Japan

### **Women Empowerment: A Case Study of Myanmar Employed Women and Housewives**

Khin Mar Mar  
Mandalay University of Distance Education, Ministry of Education, Naypyidaw, Myanmar

### **What One Hand Gives, the Other Takes Away: Migration, Food Insecurity, and Women in the Philippines**

Jorge V. Tigno  
Department of Political Science, University of the Philippines Diliman, Quezon City, Philippines

### **Light and Shadows of the Woundedness Among Sex Workers Enfleshed in the Diary of St. Faustina: An Exploratory Study**

Nick John B. Solar  
Theology Department, University of San Agustin, Iloilo City, Iloilo, Philippines

### **Exploring the Gender Division of Labor in the Wood Carving Industry of Paete, Laguna**

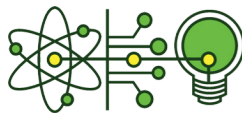
Samuel Brando H. Piamonte  
Department of Social Sciences , University of the Philippines Los Baños, College, Laguna, Philippines

### **The Barangay Health Workers Program in Calbayog City**

Eugene C. Calumba  
Northwest Samar State University, Calbayog, Samar, Philippines

### **Development of a Data Compilation System for Gende-responsive Planning and Monitoring**

Liza N. Comia  
Institute of Statistics, University of the Philippines Los Baños, College, Laguna, Philippines



**STRAND 6C: Disaster Risk Reduction of Natural Disasters caused by Climate Change, Earthquake and Tsunami**

Summit Hall F, 4<sup>th</sup> Floor

**Session Chair:**

Dr. Decibel Faustino Eslava

Dean, School of Environmental Sciences and Management, University of the Philippines Los Baños, College, Laguna, Philippines

**Wireless Sensor Network Complements Telemetered Landslide Early Warning System in Sites with Poor GSM Connectivity**

Earl Anthony V. Mendoza

Philippine Institute of Volcanology and Seismology Department of Science and Technology (PHIVOLCS-DOST)

Quezon City, Philippines

**Predicted Freezing Damage in HVAC and Plumbing Systems caused by Loss of Power during Major Disasters and Its Counterplans**

Masanori Sugawara

Miyagi University of Education, Sendai, Miyagi, Japan

**Recent Devastating Wind Disasters in East Asia**

Yukio Tamura

Beijing's Key Laboratory of Structural Wind Engineering and Urban Wind Environment, Beijing Jiaotong University

Beijing, China

**Recent Earthquakes and the Need for New Philosophy for Earthquake Resistant Design**

Akira Wada

Tokyo Institute of Technology, Tokyo, Japan

**Peatland Disaster Risk Reduction Based on Ecosystem Management in Palangkaraya, Central Kalimantan of Indonesia**

Wahyu Widiyono

Research Center for Biology, the Indonesian Institute of Sciences, Jakarta, Indonesia

**Science Council of Japan and Japan Academic Network for Disaster Reduction**

Masako Yoneda

Keio Advanced Research Center, Keio University, Tokyo, Japan

**Relevance of the UNDP Human Security Framework in Tacloban City's Disaster Risk Reduction Management as Applied to the Lessons Drawn from Typhoon Haiyan (Yolanda)**

Geraldo S. Petilla

National Research Council of the Philippines, Taguig City, Philippines

**Looking into Socio-economic Factors Influencing the Level of Awareness and Adaptation of Small Scale Farmers on Climate Change in the Philippines**

Rosemarie Laila D. Areglado

School of Environmental Science and Management (SESAM), University of the Philippines Los Baños, College, Laguna, Philippines

4:00 - 5:00

**SYNTHESIS AND DRAFTING OF RESOLUTIONS**

**CLOSING MESSAGE**

Prof. Takashi Onishi

President, Science Council of Japan

1:00 - 5:00

**INTRAMUROS TOUR**

(participation is optional)

hosted by Tourism Promotion Board

Department of Tourism, Philippines

**MASTERS OF CEREMONIES**

**DR. ARISTOTLE P. CARANDANG**

*Chief, Communication Research and Production Division*

Science and Technology Information Institute

Department of Science and Technology

ASSOCIATE MEMBER, NRCP Division of Social Sciences

**MS. LYNN TALINGDAN**

*Supervising Science Research Specialist*

Information Group - Office of the Executive Director

Philippine Council for Industry, Energy,

and Emerging Technology Research and Development

Department of Science and Technology

# LIST OF POSTER PAPERS



## POSTER SESSION 1

### A. Re-engineering Research (in the Humanities, Social Sciences, and Governance and Education) Towards Inclusive Growth

POSTER CODE NO.	AUTHOR	TITLE
P1-A01	Froilan D. Mobo Philippine Merchant Marine Academy San Narciso, Zambales	FDM Cloud Based Application Performance Monitoring System of the Cadets While on Board Ship Training for the Philippine Merchant Marine Academy in San Narciso, Zambales
P1-A02	Niño D. Naldoza Philippine Normal University	Work-Family Conflict, Life Stress and Job Burnout of Faculty Members in Polytechnic University of the Philippines Maragondon
P1-A03	Niño D. Naldoza Philippine Normal University	Centers of Excellence and Development in Teacher Education: Contribution to Secondary Teachers Quality and Sustainability
P1-A04	Angeline M. Pogoy Cebu Normal University, Philippines	Financial Literacy of Professional and Pre-Service Teachers in the Philippines
P1-A05	Eugene C. Calumba Northwest Samar State University	Northwestern Samar State University Student's Choice Awards for Radio and Television: An Assessment
P1-A06	Easter B. Belandres Philippine Military Academy	Trade-off that the AFP Stakeholders Make with Military Leadership
P1-A07	Jackie D. Urrutia Polytechnic University of the Philippines	Regression Analysis of the Economic Factors of the Gross Domestic Product in the Philippines
P1-A08	Amelia M. Bonotan Cebu Normal University	The Secrets of Running a Character Awardee School: A Qualitative Case Study
P1-A09	Bernabe M. Mijares, Jr. Bohol Island State University	Technology Innovation: The FabLab Experience of BISU
P1-A10	Daw Khin Htay Taunggyi University, Southern Shan State Myanmar	Traditional Installation of Shan Sawbwas (Shan Chiefs ) in Myanmar Monarchical Time
P1-A11	Benjamin R Villfañe Palompon Institute of Technology Philippines	Color Television Receiver Fault Simulator
P1-A12	Serapion N. Tanduyan & Nudalo Cebu Technological University, San Francisco, Cebu	Feed Trials of Compounded Fish Diet Out of Corn (Zea mays) Endosperm and Dried Round Scud (Decapod macrobrachium) to the Oreochromis niloticus reared in Plastic Containers
P1-A14	Hasia Lynn Marie A. Castil, Mikaela Y. Surpia, Kimberly Claire A. Almo, Cherry Mae L. Palar, Noel B. Elizaga University of the Philippines Visayas Tacloban College	Online Enterprise: The Future of Agricultural Market a Study on the Level of Market Acceptance of Farm Market Online Application by Small-Scale Farmers in Dulag Leyte and Basey Samar and Middlemen in Tacloban City
P1-A15	Ryan V. Dio, Benilda A. Recebido, Marigrace D. Carretero, Michael John A. Jamora, Ronaldo R. Cabral Sorsogon State College	A Community Survey on Pulis Kasangayahan's Performance in Sorsogon Province, Philippines
P1-A16	Serapion N. Tanduyan & Barcenas Cebu Technological University, San Francisco, Campus	The Computer Literacy of Selected Public and Private Secondary Schools in Camotes Islands, Central Philippines
P1-A17	Rhodella A. Ibabao University of the Philippines Visayas, Miagao, Iloilo	A Review of Free Prior Informed Consent Implementation: The Case of a Large Dam Project in Iloilo, Philippines

P1-A18	Syahrizal Maulana Center for Innovation, Indonesian Institute of Sciences	Development of Technology Incubator LIPI in Generating Businesses through Technology Incubation
P1 -A19	Judith S. Calamayo Northwest Samar State University	Implementation of the Experiential Learning Courses of the College of Teacher Education and Arts and Sciences: An Assessment
P1-A20	Syahrizal Maulana Center for Innovation, Indonesian Institute of Sciences	Building a Strong and Inclusive Relationship between Researchers in Generating Excellent Research Results
P1-A21	Mild R. Hombrebueno Nueva Vizcaya State University Bayombong, Nueva Vizcaya	Voices of Indigenous Women: Empowerment Strategies in Sustainable Watershed Management in Nueva Vizcaya, Philippines
P1-A22	Eugene C Calumba College of Management, Northwest Samar State University	Contractualization Practices in Calbayog City
P1-A23	Mariel Wyne D. Cristobal University of Santo Tomas	Accent Detection and Classification for Selected Filipino Dialects
P1-A24	Marde T. Ponce Cebu Technological University-Cebu City Campus	Innovated Multi-Purpose Drafting Instrument
P1-A25	Serapion N. Tanduyan Cebu Technological University, San Francisco, Cebu Campus	The Culture of Bloody Cockles (Anadara antiquata Linnaeus) in Difference Water Levels at the Marine Waters of Northern Poblacion, San Francisco, Cebu
P1-A26	Jaydee Anne C. Abella University of Santo Tomas	Modified RAP Mixture Containing Porac Lahar Sand as Partial Replacement of Fine Aggregates for Wearing Course Application
P1-A27	Wilfredo I. Jose University of the Philippines, Diliman	Elucidating the WJ Jose's Paradigm-Based Idea Generating Process (P-BIGPro) and Its Applications
P1 A28	Josuah Allen R. Mercado	LAN Based Automated Class Scheduling System Using Naive Bayes Algorithm
P1 A29	Jordan Wong University of Santo Tomas	MRT Time of Arrival Prediction using Moving Average Prediction Algorithm
P1 A30	Harold Jay M. Bolingot Ateneo Innovation Center	Analyzing the Development of Muscle Fatigue in Performing Laparoscopic Skills Exercises
P1 A31	Leo Jesus M. Lacaba SUC Faculty Member	Regional Development Council VII as Coordinating Body for Socio-Economic Development
P1 A32	Mysel A. Capilayan Mindanao State University -Iligan Institute of Technology	Low-Power Design of SRAM using 8T SRAM Cell and Block Partitioning Technique Implemented in 65nm Technology
P1 A33	Maria Ana G. Javier University of the Philippines Visayas Tacloban College	The Introduction of Fover, a Mobile Application that Aims to Improve the Business Operation Between the Mabalant Food Vendors and Its End-Consumers
P1 A34	Roland Christopher F. Caballar University of the Philippines Diliman	Dissipation Induced Quantum Transport on a Finite Lattice



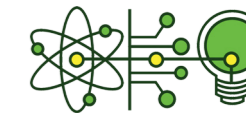
P1 A35	Avelino G. Ignacio Jr. Bulacan State University	Exploring Mathematics Achievement Goals Using Kolb's Learning Style Model
P1 A36	Ranulfo G. Galvez Zamboanga City State Polytechnic College	Pedagogical and Practical Considerations for Designing Environmentally-friendly, Cost-saving, Socially-responsive and Culturally-appropriate Technology: Three School Project Prototypes
P1-A37	Muhammad Kismurtono, Hardi Julendra Hernawan and Tri Hadi The Indonesian Institute of Sciences Indonesia	Development of Biogas on Renewable Energy Storage System with Concentration of Aqueous sodium hydroxide 1.5 M

## POSTER SESSION 1

### B. Eco-environmental studies and Ecological Engineering

POSTER CODE NO.	AUTHOR	TITLE
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P1 B02	Joefreim A. Delicano FEATI Univ	Water Quality Assessment of Rainwater Harvester from Barangay 352, Zone 35, District III Sta. Cruz, Manila
P1 B03	Nozel Christy A. Fabila UP Visayas	Sustainability of Community-based Domestic Water Systems in Janiuay, Iloilo
P1 B04	Roel L. Fucio UPLB	Agricultural Land Use Change in City of Santa Rosa, Laguna, Philippines
P1 B05	Monera A. Salic-Hairulla MSU IIT	Distribution of Mollusks and Crustaceans in Lake Lanao
P1 B06	Marife M. Mustacisa Samar State University Catbalogan City, Samar	Diversity, Uses and Economic Value of Ferns: An Instrument for Epistemological Perception
P1 B07	Fe B. Pungtilan Northwestern University Laoag	Carbon Footprint Inventory of Selected Barangays of Laoag City Towards the Enhancement of Extension Program of NWU
P1 B08	Elsie C. Pilar Northwestern University Laoag	Carbon Footprint Inventory: NWU's Benchmark for Future Alternatives
P1 B10	Serapion N. Tanduyan Cebu Technological University Cebu	Mangrove Clam ( <i>Anodontia edentula</i> Linn. 1758) as a Resource, Food and Livelihood of Camotes Islands, Central Philippines
P1 B11	Serapion N. Tanduyan Cebu Technological University Cebu	Soli-Soli ( <i>Typha latifolia</i> ) of Lake Danao San Francisco, Central Philippines as an Industry and as a Festival Emblem: Its Status, Processing and Proposed Conservation Options for Sustainability
P1 B13	Orville D. Hombrebueno Nueva Vizcaya State University Nueva Vizcaya	A Preliminary Application of Mathematical Modeling to the Rainfall Data of the Weather Monitoring System of Nueva Vizcaya State University
P1 B14	Lelisa J. Teodosio Aklan State University Aklan	Inventory and Characterization of Natural Fibers in the Province of Aklan
P1 B15	Blesshe L. Querijero University of the Philippines Los Baños College, Laguna	Vittelogenin Induction on Male Tilapia ( <i>Oreochromis niloticus</i> ) Collected from Selected Aquaculture Areas of Taal Lake and Laguna de Bay: Indication of Exposure to Environmental Estrogen

P1 B16	Joel P. Mallari Department of Education City of San Fernando Pampanga	Pelaguyung Tanaman: An ethnobotanical Survey The Use of Local Toponymic Study in Documenting Early Taxonomic Inventory of Plant Names
P1 B17	Glenn Bryana A. Creencia Cavite State University Cavite	Local Ecological Knowledge and Management Practices toward Labac River Resources in Indang, Cavite, Philippines
P1 B18	Danila S. Paragas Central Luzon State University	Effects of Different Preparations of <i>Annona muricata</i> Leaves on the Biosorption of Lead, Nickel and Zinc from Aqueous Solution
P1 B19	Michael Francis D. Benjamin University of Santo Tomas	Monte Carlo Simulation Approach to Assess the Sensitivity of Integrated Biorefineries to Climate Risks
P1 B20	Dahlia C. Apodaca Polytechnic University of the Philippines Sta. Mesa	Leaching of Nickel from Philippines' Laterite Ore Using Iota-Carrageenan
P1 B21	Noralyn B. Legaspi Mariano Marcos State University, City of Batac, Ilocos Norte	Development of a Sustainable Organic Conversion Scheme for a Rice-Based Agro-Ecosystem
P1 B22	Noralyn B. Legaspi Mariano Marcos State University, City of Batac, Ilocos Norte	Exploring the Potentials of "Kamangeg" ( <i>Dioscorea luzonensis</i> ) to Enhance Agricultural Productivity and Food Sufficiency
P1 B23	Heidi D. Mendoza University of the Philippines Los Baños	A Synergistic Approach for a Proactive Agricultural Monitoring and Forecasting System in the Philippines
P1 B24	Diane Clare M. Tiongco University of the Philippines Los Baños	Optimization of Soil Washing Conditions Using Chitosan for the Removal of Nickel from Nickel-Contaminated Soil
P1 B25	Puguh Prasetyoputra Research Center for Population, Indonesian Institute of Sciences (P2K-LIPI)	Determinants of Unsafe Cooking Fuel Use among Households: Evidence from Indonesia
P1 B26	Mycel A. Capilayan Mindanao State University - Iligan Institute of Technology	Design of Self-biased Cross Coupled Rectifier with Integrated Dual Threshold Voltage for Energy Harvesting Application
P1 B27	Ruel R. Cabahug University of Science and Technology of Southern Philippines	Design and Development of Ferrocement Tank to Store Rainwater from Roof Catchments of Buildings
P1 B28	Julito C. Aligaen Iloilo Science and Technology University Leon Campus, Iloilo	Identification and Characterization of Native Earthworm Species in the Municipality of Leon, Iloilo
P1 B29	Jan Ramel A. Tumbaga Virgen Milagrosa University Foundation	Social Acceptability of Phytoremediation Technology for the Rehabilitation of a Controlled Dumpsite
P1 B30	Ronnel Franco G. Landrito Alabang Elementary School	Insecticidal Efficacy of Hagonoy Plant ( <i>Chromolaena odorata</i> (L.) R.M.King & H.Rob.) and ZZ Plant ( <i>Zamioculcas zamiifolia</i> (Lodd.) Engl.) Against Harlequin Cockroach ( <i>Neostylopyga rhombifolia</i> (Stoll, 1813))
P1 B31	Patrick Jacob L. Liwag University of the Philippines Manila	Facile and Green Biginelli Synthesis of Dihydropyrimidine Derivatives Using Protic Deep Eutectic Solvents
P1 B32	Alfredo C. Robles, Jr. De La Salle University Manila	Grave Damage to Biodiversity and International Law: The South China Sea Arbitration as an Example



P1 B33	Rodney T. Cajimat De La Salle University Manila	Spatial Patterns of Epiphytic Lichens in a First Class Municipality: Interpolation and Contour Mapping of Relative Physical Factors, Lichen Size and Abundance
P1 B34	Joyce B. Lanuza Doroteo S. Mendoza Memorial Sr. National High School	Environmental Assessment of Caluangan Lake: A Basis for Strategic Management Plan
P1 B35	Peter R. Go-Monilla University of the East Caloocan Campus	Knowledge of Climate Change, Environmental Concern, and Stewardship among College Students

## POSTER SESSION 1

### C. Human Health and Biotechnology

POSTER CODE NO.	AUTHOR	TITLE
P1 C01	Alice Geraldine S. Hernando Mariano Marcos State University	Biodegradation of Rice Hulls by Isolated Soil Microorganisms from Ilocos Norte
P1 C02	Allan B. de Guzman University of Santo Tomas	The Interactive Effects of Nutrition-Related Domains on the Blood Pressure of Hypertensive Filipino Street Vendors
P1 C03	Allan B. de Guzman University of Santo Tomas	A Partial Least Square (PLS) of the factors affecting the nutritional status of tricycle drivers in the Philippines
P1 C04	Allan B. de Guzman University of Santo Tomas	Nutritional Auality of Meals, Food Intake, Physical Activity, and Length of Stay Predict Institutionalized Elderly's Nutritional Status
P1 C05	Peterson T. Apostol Philippine Society of Youth Science Clubs	Preliminary Evaluation of the Medicinal Uses of Aludig ( <i>Streblus asper Lour.</i> ) Through Phytochemical Screening and Antibacterial Assay
P1 C06	Regene G. Hernandez	Medical Application for Respiratory Illnesses (MARI): An Android-based Prognosis and Symptom Checker Assistant using Naive Bayes Algorithm
P1 C07	Harini Yaniar Center for Innovation, Indonesian Institute of Sciences (LIPI)	Global Trend on Therapeutic Inventions in Determining Pathways for New Research and Commercialisation
P1 C08	Camille F. Alvarez University of Santo Tomas	Energy Drinks Consumption and Dietary Intake Predict Obesity Among Filipino University Students
P1 C09	Noel C. Cardona, Jr. Nueva Vizcaya State University-Bambang Campus	Utilization, Nutritional and Medicinal Properties of Lingtan Wild Mushroom ( <i>Fomitopsis pinicola</i> ) in Kayapa, Nueva Vizcaya
P1 C10	Jessy C. Domingo University of Northern Philippines, Tamag, Vigan City	Phytochemical Analysis and Antimicrobial Property of Sili-Silu ( <i>Micromelum minutum</i> ) Stem Barks and Leaf Extract
P1 C11	Antonio E. Lim, Jr. Department of Medical Laboratory Science, St. Scholastica's College Tacloban	Biotechnological Applications of Bacterial Lipoproteins: Implications to Vaccine Development, Diagnostics and Recombinant Mass Production
P1 C12	Hiroshi Torihama and Takehiro Tanaka Toyo University, Japan	Recent Tendency of Accidents by Old and Middle Age Worker in Construction Industry
P1 C13	Ana Asumpta N. Perez Philippine Nurses Association	Core Competencies of the Nursing Units of Hospitals Affiliated with Visayas State University, Baybay Leyte
P1 C14	Marjune Anthony T. Semilla School of Health Science Professions St. Dominic College of Asia Philippines	Antibacterial Effect of Lipang Aso ( <i>Laportea interrupta</i> ) Leaves Extract Against <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i>

P1 C15	Ava Marie Z. Duran St. Dominic College of Asia Philippines	Determination of the Anesthetic Property of <i>Anacardium occidentale</i> Linn. (Cashew) extract as Topical Anesthetic
P1 C16	Diah Anggraeni Jatraningrum Center for Innovation, Indonesian Institute of Sciences (LIPI)	Emerging Medical Invention for Inclusive Development
P1 C17	Franelyne P. Casuga University of Santo Tomas	Bioactive Compounds and Cytotoxicity of Methanolic Extract from <i>Broussonetia luzonica</i> (Moraceae) Blanco Leaves against Hepatocellular Carcinoma (HepG2) Cell Lines and Its Formulated Oral Solution
P1 C18	Don Carlo R. Batara Mariano Marcos State University	Cytotoxic and Antioxidant Activity of Brown Algae <i>Dictyota dichotoma</i> Ethanolic Extract
P1 C19	Petronila E. Florendo University of Northern Philippines	Antimicrobial Agent Potential of the Leaf Extract of Three Bamboo spp. on Four Microorganisms
P1 C20	Alyssa G. Cipriano St. Dominica College of Asia, Philippines	Determination of the Anti-Diarrheal Property of Kalachuchi ( <i>Plumeria acuminata</i> Fam. Apocynaceae) Leave Extract in Albino Rats
P1 C21	Charlene L. Vergara St. Dominic College of Asia, Philippines	Evaluation of the Pedicicular Activity of Ethanolic Extract from the Leaves of Sambong <i>Blumea balsamifera</i> L. DC. (Asteraceae)
P1 C22	Kathlyn Joy C. Atangan St. Dominic College of Asia, Philippines	Validation and Preformulation of Antibacterial Topical Cream from Oyster Mushroom ( <i>Pleurotus ostreatus</i> Pleurotaceae) against <i>Staphylococcus aureus</i> , <i>Staphylococcus epidermidis</i> and <i>Streptococcus pyogenes</i>
P1 C23	Mary Angel P. Casica St. Dominic College of Asia, Philippines	The Potentials of Areca Nut ( <i>Areca catechu</i> L.) Extract as Counterstain in Gram Staining Reaction
P1 C24	Bayani L. Blas Remedios Trinidad Romuladez Medical Foundation, Philippines	The Schistosomiasis Problem in the Philippines as of 2015
P1 C25	Bea Nicole C. Reyes SDCA	Comparative Studies on In Vitro Coagulating Ability of Five Common Household Vegetables Extracts
P1 C26	Joseph Mari B. Querequincia San Pedro College, Davao City	Assessment of the Antioxidant and Hypolipidemic Activity of <i>Artocarpus ovatus</i> Blanco (Moraceae) leaf extract

## POSTER SESSION 1

### D. One Health: Connecting Human, Animal, and Ecosystems Health

POSTER CODE NO.	AUTHOR	TITLE
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P1 D02	Julito C. Aligaen Iloilo Science and Technology University	Pesticide Residue Assessment in Human Blood (Organophosphate-OP and Carbamate-CM) using Cholinesterase Reactive Paper
P1 D03	Menisa A. Antonio University of the Philippines Visayas Tacloban College	The Indigenous Food Plants of Ilocos Norte: Ethnobotanical Survey and Habitat Characterization
P1 D04	Rosalina R. Atos Aklan State University Aklan	Influence of Cooking Antibiotic Residues in Broiler Meat



P1 D05	Aung Aung Aye Myeik University Myanmar	The Indicator of Heavy Metals Content in Hard Clam (Bivavia) Common in Myeik Estuarine Areas
P1 D06	DJ Darwin R. Bandoy University of the Philippines Los Baños	Infodemiology of Rabies in the Philippines using Google Trends
P1 D07	Ma. Asuncion G. Beltran Tarlac Agricultural University	Fermented Feeds with Commercial Probiotic Preparation on Growth Performance, Meat Quality and Economic Viability of Pigs
P1 D08	Brian Keith R. Bernal Saint Dominic College of Asia	Screening of Choramphenicol and Tetracycline Residues in Poultry Tissues Sold in Bacoar
P1 D09	Jesus E. Bream Palawan Council for Sustainable Developmen	Nursery Rearing of Black Lip Pearl Oyster Pinctada margaritifera Fed with Different Micro-algal Species
P1 D10	Candace Paula C.S. Chua University of Santo Tomas	Philippine Spent Coffee Grounds as a Functional Ingredient in Cappuccino Cookies
P1 D11	Joshua Miguel M. Cruz University of Santo Tomas	Radical Scavenging Activity and Antimicrobial Efficiency of Ethanolic Extract of Bignay ( <i>Antidesma bunius</i> (L.) Spreng.) in Meatloaf
P1 D12	Hiroyuki Wariishi and Takehiro Tanaka Toyo University Japan	Study on Risk and New WBGT Estimation of Accident by Heatstroke in Construction Industry of Japan
P1 D13	Nang Mya Han Myeik University Myanmar	Ecosystem Health of Myeik Archipelago, Southern Coast of Myanmar
P1 D14	Alice Geraldine S. Hernando Mariano Marcos State University	Comparative Study on the Decalcification Rate of Different Concentration of Commercially Available Muriatic Acid
P1 D15	Alice Geraldine S. Hernando Mariano Marcos State University	Histopathological Effect of Rambutan ( <i>Nephelium lappaceum</i> ) Crude Peel extract on the Ovary of the White Mice ( <i>Mus musculus domesticus</i> )
P1 D16	Dian Anggraeni Jatraninggrum Center for Innovation, Indonesian Institute of Sciences (LPI)	Strategy of Technology Transfer Acceleration in Food Safety Sector through Technopark Development towards Inclusive Develop
P1 D17	Analinda C. Manila-Fajardo University of the Philippines Los Baños	Quality Determination of Apis mellifera L. Honeys from Puerto Princesa, Palawan
P1 D18	Matthew C. Matienzo University of the Philippines Visayas	Marketability of 5-Gallon Bottled Water versus Tap Drinking Water Based on Cost, Taste, Convenience, and Perceived Quality to Family Households in Downtown Tacloban
P1 D19	Alvin B. Naguna, Jr. St. Dominic College of Asia Philippines	Determination and Evaluation of the Wound Healing Property of Corn oil ( <i>Zea mays</i> ) F. Poaceae
P1 D20	Cesar V. Ortinero Central Luzon State University Muñoz	Anthelmintic Property of Leaf Extracts from Selected Plants against <i>Haemonchus contortus</i> in Goats ( <i>Capra hircus</i> )
P1 D21	Irene L. Papa BIOTECH Los Baños Laguna	Maquinit Hot Spring, Busuanga Island, Coron, Palawan: The Wonders of Its Microbes Against Important Pathogen and its Biodiversity
P1 D22	Mercita Q. Queddeng University of Northern Philippines Ilocos Sur	Toxicity Testing, Proximate Nutritional Analysis and Documentation of the Traditional Ilocano Household Use of the Native Rosel ( <i>Hibiscus sabdariffa</i> L.) Seeds as Potential Alternative Food Source

P1 D23	Aitee Janelle E. Reterta Cavite State University Cavite	Dragon fruit ( <i>Hylocereus polyrhizus</i> ) Peels: A Potential Functional Food Ingredient
P1 D24	Myla R. Santiago University of Sto. Tomas Manila	Isolation and Purification of Lactic Acid Bacteria Producing Bile Salt Hydrolase from Philippine Bulgarian murrh Rumen and Determination of its Cholesterol Lowering Properties
P1 D25	Jesucita Lao Sodusta University of Hong Kong	Exploring Mothers' Knowledge of Plant-Derived Remedies in North-Eastern, Mindanao, Philippines against Schistosomiasis
P1 D26	Yusuf A. Sucol University of the Philippines Los Baños College, Laguna	Documenting the Fraudulent Use of Jobus in Food Fishes Sold in the Philippine Public Markets and Exposing its Potential Public and Environmental Health Risks
P1 D27	Kerstin Marie V. Velasco University of Sto. Tomas Manila	Nutritional and Antinutritional Characteristics of Vegan Sausages Prepared from Germinated Black Beans ( <i>Phaseolus vulgaris</i> L.)
P1 D29	Eric Jhon DG. Cruz University of the Philippines Los Baños College, Laguna	Assessment of Rapid Detection Tools for Residues of Organophosphates and Carbamates on Eggplant

### POSTER SESSION 1

#### E. Gender Integration and Mainstreaming in S&T Innovations

POSTER CODE NO.	AUTHOR	TITLE
P1 E01	Eugene C. Calumba Northwest Samar State University	Extent of Implementation of the Violence Against Women and Children of Law Enforcement Offices in Calbayog City
P1 E02	Ni Ni Hlaing Mandalay University of Distance Education Myanmar	Empowering Women and Achieving Gender Equality to the Sustainable Development in the Context of Myanmar
P1 E03	Kim Arianne Zarzua University of the Philippines Visayas Tacloban College	A Gender-Responsive Value Chain Analysis of the Rock Oyster Home-based Industry in Samar

### POSTER SESSION 1

#### F. Disaster Risk Reduction of Natural Disasters caused by Climate Change, and Earthquake and Tsunami

POSTER CODE NO.	AUTHOR	TITLE
P1 F01	Maria Ela L. Atienza University of the Philippines Diliman Quezon City	Do Local and National Governments Promote Human Security and Resilience After Disasters? Lessons from Haiyan (Yolanda)
P1 F02	Allaine T. Baaco Western Philippines University	Economic and Social Perspectives for Developing Flood Risk Reduction Framework in Bucal, Halang and Pansol, Calamba City, Laguna, Philippines
P1 F03	Lex Bryan B. Bangot Ardufarm	Evaluation of Steel Inductance for a Non-invasive Steel Quality Sensing Device
P1 F04	Amelia M. Bonotan Cebu Normal University	Children's Coping Mechanisms 100 Days after Typhoon Yolanda: Basis for K + 12 Curriculum Integration of Disaster Risk Reduction

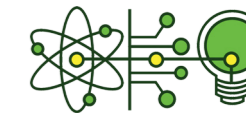


## POSTER SESSION 2

### A. Re-engineering Research (in the Humanities, Social Sciences, and Governance and Education Towards Inclusive Growth)

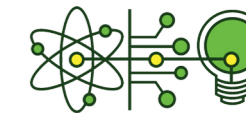
P1 F05	Nikko Ardel P. Floretes Samar State University	Strain Gauge Sensor Based for Low Cost Structural Health Monitoring Using Wireless Network
P1 F06	Ruth U. Gamboa University of the Philippines Mindanao	From Research to Policy: Enhancing Resilience During an Extreme Flood
P1 F07	Ma. Joycelyn A. Go-Monilla University of the East Caloocan Campus	Disaster Preparedness in Flood-Prone Areas in CAMANAVA, Bulacan, and Pampanga: Basis for Community-Based Approaches to Disaster Mitigation
P1 F08	Pedro G. Jayectin Bohol Island State University	Bohol Earthquake: Efficient Responses and Gender Mainstreaming in Disaster Risk Reduction and Management
P1 F09	Leodegario U. Lorenzo PHILVOCS	Intensity-Duration Rainfall Thresholds for the Initiation of Deep-seated Slope Movements in Dynaslope Sites
P1 F10	Andres Winston C. Oreta De La Salle University	"Making Resilient Cities": Assessment of Three Cities in Metro Manila
P1 F11	Ludivina M. Porticos University of Immaculate Conception- Davao City	Vulnerability Assessment of the Urban Water Supply System of Davao City, Southern Philippines
P1 F12	Marietta B. Rasonabe Technological University of the Philippines	Disaster Preparedness and PTSD Vulnerability
P1 F13	Kennex H. Razon PHIVOLCS	Improving Subsurface Tilt Measurement for Landslide Monitoring Using an Iterative Method for Computing Calibration Parameters
P1 F14	Ma. Ciara Lyzza B. Ricafort University of the Philippines Visayas Tacloban College	A Study on the Disaster Preparedness of Regular Employees of National Executive Departments in Tacloban City
P1 F16	Ronald D. Superioridad University of Southern Mindanao Kabacan, Cotabato	Dynamic Properties of Soil as Influence by Organic and Conventional Vegetable Cropping Systems
P1 F17	Maricel M. Tizon Samar State University	Disaster Knowledge and Preparedness in Rural Residents
P1 F18	Moises C. Torrentira, Jr. University of Southeastern Philippines	Framework of Disaster Preparedness Among Coastal Communities in Davao City, Philippines
P1 F20	Arnel D. Zamayla Mindanao State University Iligan Institute of Technology, Philippines	Mobile Robot Decision Making Using Behaviour Tree
P1 F21	Hiroyuki Miyazaki Center for Spatial Information Science University of Tokyo Japan	ASEAN Platform of Geospatial & Space Technologies for Disaster Risk Management
P2-F22	Sakiko Kanbara University of Kochi, Japan	EpiNurse: Participatory Monitoring of Health Security and Disaster Risk Reduction by Local Nurses

POSTER CODE NO.	AUTHOR	TITLE
P2 A01	Franz D. Solomon West Visayas State University,	Community Funds of Knowledge as Basis for a Place-Based Environmental Science Education Program for Dumpsite School Children
P2 A02	Ruel V. Pagunsan Department of History, University of the Philippines Diliman	Natural History and the Philippine Nation
P2 A03	Bryan Christian C. Ricalde University of the Philippines Visayas Tacloban City	Study on the Impact of Salary Standardization Law of 2016 on the Enrollees in Education Courses in Leyte Normal University (LNU)
P2 A04	Edmarc B. Arucan Faculty of Engineering, University of Santo Tomas	Evaluation of Music Features and Statistical Pattern Recognition Classifiers: A Supervised Learning Towards Music Genre-Era Classification
P2 A05	Lawrence A. Eclarin Mariano Marcos State University	Developing New Patterns and Designs for the Local Weaving Industry in Paoay, Ilocos Norte
P2 A06	Lady Ann M. Fabillar Samar State University	Development of Analyzer Based Power Factor Correction Device
P2 A07	Lady Ann M. Fabillar Samar State University	Psychological Well-Being of Street Children in Catbalogan City
P2 A08	Vicente A. Pitogo Caraga State University	Web-based GIS Ancestral Domain Management Using Pull Technology
P2 A09	Toru Fujii HITACHI,Ltd., Japan	A Study on Relationship between Customer Co-Creation Strategy and Senseware for Realization of SOCIETY 5.0
P2 A11	Wu Huyan and Takehiro Tanaka Tokyo University Japan	Study on New Smart City Standpoint from Business Continuity Management in Japan
P2 A12	Patrick John F. Mansujeto Philippine State College of Aeronautics	Wings of Benevolence: The Introduction of Man-Powered Flight and Aviation in the Philippines, 1909-1919
P2 A13	Jackie D. Urrutia Polytechnic University of the Philippines	A Statistical Analysis on Estimating the Exchange Rate of the Philippines
P2 A14	Glo Ann N. Balcita National Economic Development Authority, Regional Office 1	Determinants of Farmers' Demand for Rice Crop Insurance in the Ilocos Region, Philippines
P2 A15	Demetrio C. Alcaraz, Jr. University of Santo Tomas	Conservation by Liberation: The Sanctuary of San Roque Cathedral, Caloocan
P2 A16	Amelia M. Bonotan Cebu Normal University	The Voice of Families Living Under The Mactan Bridge, Cebu: Calling for Immediate Social and Economic Assistance
P2 A17	Jonathan R. Adanza St. Dominic College of Asia	Living with the Albularyos in Selected Areas of Las Piñas City
P2 A18	Sherill A. Gilbas Sorsogon State College	Water on Bicol West Coast as Material and Non-Material Culture
P2 A19	Brian S. Bantugan St. Paul University Manila	Framed, Located, and Profiled: Framing Overseas Filipino Care Workers in Crime News Published in Pinoy-ofw.com and Inquirer.net



P2 A20	Victor P. Estrella University of the Philippines Diliman	Ancient Goldworking in Butuan: An Archaeology of a Pre-Colonial Science and Technology
P2 A21	Imelda P. De Castro University of Santo Tomas	Codifying and Intellectualizing the Base of Life: Towards a Development of a Preliminary Glossary of the Habits, Customs, and Festivities in the Philippines
P2 A22	Sherill A. Gilbas Sorsogon State College	Satirical Techniques and Tropes in the Novels of Merlinda Bobis: A Call for Change
P2 A23	Apriel Aura A. Cacho Northern Iloilo Polytechnic State College, Iloilo	Rose Petal Marmalade: Its Acceptability and Edibility Level
P2 A24	Pedro G. Jayectin Bohol Island State University	Loboc River Balsa: Hope to a Waning Rondalla
P2 A25	Graham M. Naz Sorsogon State College - Bulan Campus	Farmers' Satisfaction on National Irrigation Administration (NIA) Services in Sorsogon
P2 A26	Avelino G. Ignacio, Jr. Bulacan State University	Students' Viewpoints on Mathematics Courses in Engineering: A Basis for Improvement
P2 A27	Maria Pilar M. Lorenzo Institute for Integrality and Asian Development Bank	E-Government as a Tool to Monitor Government Accountability
P2 A28	Mari Mercedes E. Arzadon University of the Philippines Diliman Quezon City	Becoming Teacher-Writers of Mother Tongue Books in an Indigenous Cultural Community
P2 A29	Vincent M. Oville University of the Philippine Diliman Quezon City	Naturalizing Spaces: Traditions of Dehumanizing Spaces and The Concept of Nature
P2 A30	Led L. Despuig-Encinares Sorsogon State College Sorsogon	Ang Wika sa Pampaaralang Espasyo: Tanawing Pangwika sa Apat na Kampus ng Sorsogon Staste College
P2 A31	P. Alamsyah Indonesian Institute of Sciences Jakarta, Indonesia	Using Soft Systems Approach to Examine Technology Transfer of Seaweed Tissue Culture in Indonesia
P2 A32	Anang Hidayat Center for Innovation - Indonesian Institute of Sciences Indonesia	Market Analysis for Innovation Products Using Ethnographic Market Approach
P2 A33	Tommy Hendrix Center for Innovation - Indonesian Institute of Sciences Indonesia	Emerging of Science Technology Park to Enhance Regional Economy through Strategic Alliances
P2 A34	Akio Watanabe Kobe University Japan	Progressive Introduction of Free Education in Japan and Korea: a Strategy for Sustainable Development against Birth-rate and Population Decline in the Future of Asian countries
P2 A35	Do Ngoc Anh and Takehiro Tanaka Toyo University Japan	Comparative Analysis of PFI's BOT Application to Transport Infrastructures in Major Cities of Asia
P2 A36	Gregorio E. H. del Pilar Personality Research Laboratory University of the Philippines Diliman Quezon City	The Suitability of the Mapa ng Loob Personality Inventory among Adults Lower in Educational Attainment and Socioeconomic Status (ALEASES)
P2-A37	Rhodella A. Ibabao University of the Philippines Visayas Miagao, Iloilo	Framing Water Conflict at the Tigum-Aganan Watershed in Central Philippines

P2-A38	Choerunisa Noor Syahid Research Center for Regional Resources- Indonesian Institute of Sciences Indonesia	From Physical to Human Development: An Integrated Strategy towards Climate Change Mitigation and Adaptation
P2-A40	Chihiro Kuroiwa Waseda University Japan	Historical Formative Process and Present Subjects of Siem Reap Central Area
P2-A41	V. Susirani Kusumaputri Center for Innovation LIPI Indonesia	Diffusion of Innovation in Technology Incubators As Part of the Innovation National Agency Towards Inclusive Development
P2-A42	Lady Flor N. Partosa Silliman University Philippines	Ang Nasod Sulod sa Atong mga Balak (The Nation in Our Poems): The Filipino Nation in Cebuano Modern Poetry from Sa Atong Dila: Introduction to Visayan Literature (Edited by Merlie Alunan)
P2 A43	Pepito T. Dizon University of the Philippines Diliman Quezon City	An Assessment of the Implementation Aspect of the Engineering Research and Development for Technology Local Graduate Scholarship: The Case of the University of the Philippines Diliman College of Engineering
P2-A44	Rita Nur Suhaeti- Center for Agro-socio Economic and Policy Studies, Ministry of Agriculture Republic of Indonesia	Poverty and Food Insecurity and the Overcoming Efforts in Indonesia
P2-A45	Yovita Isnasari Center for Innovation, Indonesian Institute of Sciences Indonesia	Fostering Innovation for the Inclusive Growth: Technology Licensing's Role of Center for Innovation
P2-A46	Eugene C. Calumba Northwest Samar State University	Online Shopping Buying Behavior Using Social Media of the NwSSU Students
P2-A47	Froilan D. Mobo AMA Computer College Olongapo Campus, Philippines Philippine Merchant Marine Academy San Narciso Zambales, Philippines	Mini Alternating Current Generator Using Heat of Candles
P2-A48	Norihisa Shima Department of Regional Development Studies, Toyo University Japan	A Critique to Inclusive Urban Development: From the Informal Settlements of Lusaka and Jakarta
P2- A50	Maria Christina Muyco College of Music University of the Philippines Diliman Quezon City	Bird Music-Dance Traditions as Expressions of Indigenous

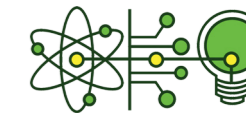


## POSTER SESSION 2

### B. Eco-environmental studies and Ecological Engineering

POSTER CODE NO.	AUTHOR	TITLE
P2 B01	Felisa L. Malabayabas University of the Philippines Los Baños	Adaptation Strategies of Vegetables Farmers Experiencing Climate Occurrences in Paoay, Atok, Benguet
P2 B02	Anita P. Aquino Batangas State University	Level of Knowledge on Climate Change Adaptation and Disaster Risk Reduction Management of the Municipality of Tingloy, Batangas
P2 B03	Flordiliza B. Dalumay Don Mariano Marcos Memorial State University-South La Union Campus	Climate Change Coping Mechanisms of the Upland Communities of Agoon, La Union: Basis for an Intervention Program
P2 B04	Juniel B. Tagarino Samar State University	Environmental Sustainability Practices in Samar State University, Philippines
P2 B05	Anita P. Aquino Batangas State University	Training of Barangay Officials on Disaster Risk Reduction and Management and Climate Change Adaptation
P2 B06	Lilibeth Gatela Miralles Visayas State University	Rice Farmers' Knowledge of Climate Change and Adaptation Practices in Low-Lying Municipality in Leyte, Philippines
P2 B07	Thura Oo Sagaing University, Myanmar	Environmental Conservation and Restoration of the Volcanic Crater Lakes and a Sagpond, Habitats of the <i>Spirulina</i> in Myanmar
P2 B08	Angelica A. Macalalad Batangas State University	Preliminary Assessment of Tourism and Fishery Benefits of Marine Protected Area of Barangay Hugom, San Juan, Batangas
P2 B09	Angelica A. Macalalad Batangas State University	Activated Carbon from <i>Swietenia Mahogany</i> and Its Application for Chromium(VI) Removal
P2 B10	Ena Eloisa B. Manlapig University of the Philippines Visayas	A Comparative Study on Water Access of Urban Poor Relocation Communities in Iloilo City
P2 B11	Zennie P. Napatotan University of the Philippines Visayas	Analyzing Water Administration Performance: A Comparative Study of Select Barangay Water and Sanitation Associations (BWSAs) in Zarraga, Iloilo
P2 B12	Jodi Belina A. Bejer Batangas State University	Level of Awareness and Willingness of Residents of Selected Barangays in Bauan, Batangas to Participate on the San Pablo de Bauan Marine Protected Area (MPA) Program
P2 B13	Marc Jason L. Macabenta University of the Philippines - Visayas Tacloban College	Post-Haiyan Livelihood Matching and Resource Allocation Management for the Fisher Folks that will be Affected by the Upcoming Closed Season of Cancabato Bay, Tacloban City
P2 B14	Joy C. Lizada University of the Philippines Visayas	Institutional Hierarchy Analysis of Property Rights to Surface Water in the Philippines
P2 B15	Reygan H. Sangalang Batangas State University	Assessment of Heavy Metals in Seawater and Sediments from Balayan Bay, Philippines
P2 B16	John Mark C. Calves University of the Philippines Visayas	The Politics of Water Conflict: Conflict Resolution Mechanisms of Barangay Water and Sanitation Associations (BWSAs) in the Municipality of Santa Barbara, Iloilo
P2 B17	Ryan A. Ramirez University of Santo Tomas	An Experimental Study on the Geotechnical Properties of Dredged Materials from Pasig River
P2 B18	Rosalie A. Hall, Yra Frances O. Macuja, Emmanuel C. Aller University of the Philippines Visayas	Water Politics: The Influence of Power Politics in Accessing Domestic Water in Hamtic and Sibalom, Antique

P2 B19	Marita Grace G. Moog University of Santo Tomas	Assessment on the Effectiveness of Photocatalytic Finish Coat Through the Addition of Titanium Dioxide on Cement-Based Plaster
P2 B20	Yolina T. Castaneto Nueva Vizcaya State University	Growth and Survival of Mangium ( <i>Acacia mangium</i> willd.) Seedlings Grown in Mine Pit Soils in the Nursery
P2 B21	Leny A. Saldo Department of Education, Dasmariñas, Cavite	Heavy Metal Concentrations in Soils and Plants Parts of <i>Mangifera indica</i> L. Around an Economic Zone in the Municipality of Rosario, Cavite, Philippines
P2 B22	Maria Lea H. Villavicencio University of the Philippines, Los Baños	Morphological and Chemical Characterization and Assessment of Genetic Diversity of Native Yam ( <i>Dioscorea</i> sp.) Germplasm Collections Conserved at the National Plant Genetic Resources Laboratory
P2 B23	Elsa I. Abayon Aklan State University, Banga Aklan	Biodiversity of Aklan River System: The Taxonomical Classification of Fish and Crustaceans
P2 B24	Lelisa J. Teodosio Aklan State University, Banga, Aklan	Characteristics of Soils for Natural Fibers in the Province of Aklan
P2 B25	Amor P. Magtibay Batangas State University	Diversity of Microalgae from Fish Cage and Non-Fish Cage Areas in Talisay, Batangas
P2 B26	Lemuel Clark P. Velasco Mindanao State University-Iligan Institute of Technology	Week-Ahead Load Forecasting Using Multilayer Perceptron Neural Network for a Power Utility
P2 B27	Juvyneil E. Cartel Eastern Visayas State University, Tacloban City	Socio-Environmental Agent-Based Simulation on the Livability of Two Mega Cities
P2 B28	Eugene C. Calumba Northwest Samar State University	Solid Waste Management of Talipapa Market in Barangay San Policarpio, Calbayog City
P2 B29	Laureen Ida M. Ballesteros University of the Philippines Diliman	Detection of Methyl Orange Using Silver Nanowires (AgNWs) as Surface Enhanced Raman Spectroscopy (SERS) Substrate
P2 B30	David Joseph G. Alzate University of Santo Tomas	Pineapple and Water Hyacinth Fibers Blended with Polyester with Polypyrrole as Energy Storage Devices
P2 B31	Bernard John V. Tongol University of Santo Tomas	Evaluation of Electrocatalytic Activity of PtCo Supported on Polyaniline/Graphene Oxide and Polypyrrole/Graphene Oxide as Cathode Catalysts Towards Oxygen Reduction Reaction for Direct Ethanol Fuel Cell Application
P2-B32	Serapion N. Tanduyan Cebu Technological University	Marine Plant Resources in Beach Resorts in Pacijan Island, Central Philippines
P2 B33	Kimberly B. Benjamin Department of Biology, College of Arts and Sciences, University of the Philippines Manila	In situ Monitoring of Genotoxic Pollution in Laguna de Bay using Micronucleus Assay in Peripheral Erythrocytes of <i>Oreochromis niloticus</i>
P2-B35	Syahrizal Maulana Center for Innovation - Indonesian Institute of Sciences	Utilization of Geographical Indication for Enhancing Competitiveness of Local Products
P2-B36	Melanio Louie G. Cunanan Graduate School, University of the Philippines Los Baños College, Laguna	Monitoring Heavy Metal Contamination Using Environmental Magnetic Proxies



P2-B37	David Joseph G. Alzate <sup>1</sup> The Graduate School; Advanced Materials Laboratory, Research Center for the Natural and Applied Sciences, University of Santo Tomas	Pineapple-Polyester Blended Fabrics Coated with Carbon and Polyaniline for Energy Storage Devices
P2-B38	Amber Dea Marie V. Peguit Philippine Normal University-Mindanao	Controlling the growth of zinc sulfide for acetic acid sensing application
P2-B39	Tomoya Okishio Waseda University, Japan	Future Prediction of Carbon Dioxide Emission in Tokyo Given by Spread of Zero Energy Apartment Buildings
P2 B40	Thura Oo Department of Geology, Dawei University, Myanmar	Geotechnical and Ecological Engineering Aspect of the Coastal Environments of Myanmar
P2 B41	Zennie P Napatotan University of the Philippine Visayas	Analyzing Water Administration Performance: A Comparative Study of Select Barangay Water and Sanitation Associations (BWSAs) in Zarraga, Iloilo
P2 B42	Ladylyn Lim Mangada University of the Philippines Visayas Tacloban College	Post Disaster Accountability in Shelter Delivery
P2 B43	Lemuel Clark P. Velasco Mindanao State University-Iligan Institute of Technology	Week-Ahead Load Forecasting Using Multilayer Perceptron Neural Network for a Power Utility
P2 B44	Imee Su Martinez Institute of Chemistry University of the Philippines Diliman Quezon City	Synthesis and Characterization of Room-temperature Ionic Liquids with Tris(pentafluoroethyl)trifluorophosphate (FAP) Anions
P2 B45	Yin Maung Maung Physics Department, Mandalay University, Myanmar	Fabrication and Characterization of SnO <sub>2</sub> Nanofibre for DSSC Application
P2 B46	Nelson R. Villarante Department of Physical Sciences and Mathematics, College of Arts and Sciences University of the Philippines-Manila	Cr(VI) Adsorption by Lumbang-Derived Activated Carbon/Chitosan Composite Crosslinked with Epichlorohydrin
P2 B47	Drandreb Earl O. Juanico Technological Institute of the Philippines	The Value of Mangroves as Bioshield against the November 2013 Haiyan Surge in Tacloban City, Philippines
P2 B48	Monet M. Loquias College of Pharmacy University of the Philippines Manila	Extraction and Purification of Pectin from Fruit Peel Wastes of Selected Philippine Fruits
P2 B50	Satrio Herbirowo LIPI	Effect of Sintering Temperature on the Rolled Copper-Sheathed Monofilament MgB <sub>2</sub> Superconducting Wire
P2 B51	Than H. Win Department of Physics University of Yangon, Kamayut Yangon, Myanmar	Formation of Hydroxyapatite Powders from Eggshells by Wet Chemical Precipitation Method

P2 B54	Yuki Ogawa Hosei University, Japan	CFD Analysis of Japanese Vernacular Architecture in the Historic Villages of Shirakawa-go Considering Regional Topography
P2-B55	Weijun Gao The University of Kitakyushu, Fukuoka Japan	Investigation and Assessment of Implementation on The Next Generation Energy and Social System Model in Japan
P2 B56	Y. Su, W.J. Gao and D.J. Guan The University of Kitakyushu, Fukuoka Japan	Fuzzy Comprehensive Evaluation Model of Urban Water Security from Urban Resilient Perspective -- A Case Study of Sponge City
P2 B57	Kazuhiro Fuyuko Yamaguchi University Japan	Steady Increase in Electricity in the ASEAN Residential Sector

## POSTER SESSION 2

### C. Human Health and Biotechnology

POSTER CODE NO.	AUTHOR	TITLE
P2 C01	Teresa S. Congjuico University of the Philippines Diliman Quezon City	To Bt or not to Bt: An Analysis of News Readers' Comments on the Debate on Bt Talong (Eggplant) Testing in the Philippines
P2 C02	Shirley G. Cabrera Batangas State University Batangas City	Effects of Drying at Varying Temperature and Time on The Properties of Lato ( <i>Caulerpa Lentillifera</i> )
P2 C03	Raita Tamaki Tohoku University Japan	Incidence, Etiology and Severity of Childhood Pneumonia in a Filipino Cohort
P2 C04	Kristine R. Dela Cruz St. Dominic College of Asia Philippines	Lead, Cadmium and Bacterial Determination in Kangkong ( <i>Ipomoea aquatica</i> ) Sold in Selected Markets of Bacoor City
P2 C05	Clifford Neil C. Rebojo St. Dominic College of Asia, Philippines	Jackfruit ( <i>Artocarpus heterophyllus</i> Lam) Seed Starch Extract as a Potential Serum Gel Separator and Its Effect on Glucose and Cholesterol Testing
P2 C06	Mark Donald Reñosa Research Institute for Tropical Medicine Philippines Tohoku University, Japan	"Of Practices and Predictors in Responding to ARI Episodes": Community Patterns of Health Seeking Behaviors in Biliran Island, Philippines
P2 C07	Mary Beth B. Maningas University of Sto. Tomas Manila	Antibiotic Resistance of <i>Vibrio</i> spp. Isolated from Shrimp Farms in the Philippines



P2 C08	Juniel B. Tagarino Samar State University Samar	Filipino Women's Awareness and Beliefs on Cervical Cancer and Papanicolaou Test
P2 C09	Elexis Mae A. Torres University of the Philippines Diliman Quezon City	Modelling the Frequency Response of Human Cochlea to Induced Defect
P2 C10	Mark Phil B. Pacot Caraga State University Ampayon Butuan City CARAGA Region	Mobile Wireless Sensor Network: A tool for Network-based Virtual Reality in Fitness Center
P2 C11	Beatrice Joy C. Fuertes Nutrition and Dietetics Department University of Santo Tomas Manila	Examining the Relationship of Daily Money Allowance, Sugar-sweetened Beverages Consumption, and Level of Nutrition Knowledge on the Nutritional Status Among a Select Group of Filipino Adolescents
P2 C12	Patrick Venjoe R. Calingasan Nutrition and Dietetics Department University of Santo Tomas Manila	The Role of Alcohol Consumption, Food Intake, and Physical Activity on the Prevalence of Obesity Among Filipino Call Center Agents
P2 C13	Vera Lynne M. Ramos Nutrition and Dietetics Department College of Education University of Santo Tomas Manila	The Impact of Nutrition Education on University Students' Knowledge and Intake of Street Foods
P2 C14	Justine Joy O. Balondo Nutrition and Dietetics Department University of Santo Tomas Manila	Factors Affecting the Nutritional Status of Congenitally Blind Filipino Children in an Institutional Setting
P2 C15	Eliza Bianca N. Nazal Nutrition and Dietetics Department University of Santo Tomas Manila	The Predictive Effect of Sugar to Dietary Intake and Lifestyle Factors among Children with Attention-Deficit/Hyperactivity Disorder
P2 C16	Patrick Francis V. Guevara Nutrition and Dietetics Department University of Santo Tomas Manila	Factors Affecting the Nutritional Status of Filipino Elderly in Home Care Settings
P2 C17	Ellen Joy O. Adviento Nutrition and Dietetics Department University of Santo Tomas Manila	Prevalence and Associated Factors of Obesity Among Adolescents with Autism Spectrum Disorders (ASD) in the Philippines
P2 C18	Jirah Asa M. Sideco Nutrition and Dietetics Department University of Santo Tomas	Examining the relationship of nutrition literacy and daily food allowance to the nutritional status of a select group of farmers in the Philippines
P2 C19	John Raymund D. Torres Don Mariano Marcos Memorial State University	Biological Properties of Different Extracts Derived from Body Wall and Cuvierian Tubules of <i>Pearsonothuria graeffei</i> Semper (Black-Spotted Sea Cucumber)
P2 C20	Allan B. de Guzman University of Santo Tomas	Correlates of Malnutrition Among Depressed Filipino Elderly in an Institutionalized Setting: A Partial Least Square Study
P2 C21	Agnes L. Castillo University of Santo Tomas	Effect of the Ethanolic Extract of <i>Tinospora sinensis</i> (Menispermaceae) Stems on Dinitrofluorobenzene (DNFB)-induced Contact Hypersensitivity in Mice

P2 C22	Veronica E. Ramirez University of Asia and the Pacific	Common Health Problems of Filipino Overseas Household Service Workers: Implications for Wellness
P2 C23	Rosalinda C. Torres Industrial Technology Development Institute, Department of Science and Technology	Characterization and Stability Studies on the Larvicidal and Ovicidal Activities of <i>Anacardium occidentale</i> (Cashew) Shell Wastes
P2 C24	Alice Geraldine S. Hernando Mariano Marcos State University	Biodegradation of Rice Hulls by Isolated Soil Microorganisms from Ilocos Norte
P2 C25	Anna Muriel T. Jacinto University of Perpetual Help System DALTA	Review of the Phytochemical, Pharmacological and Toxicological Properties of <i>Punica granatum</i> L., Fruit Juice
P2 C26	Vanessa Ley T. Reyes Centro Escolar University	Physical Activity, Health and Nutritional Status of Selected Business Process Outsourcing Employees: A Comparison
P2 C27	Allan B. de Guzman University of Santo Tomas	Risk Factors Associated with the Development of Sarcopenia among a Select Group of Community Dwelling Filipino Elderly
P2 C28	Syahfitri Anita Indonesian Institute of Sciences	Aphrodisiac Property of Porcupine ( <i>Hystrix javanica</i> F. Cuvier, 1823) Tail Meat Ethanol Extract in Male Mice
P2 C29	Ni Luh Putu Rischa Phadmacanty Indonesia Institute for Sciences	Hepatotoxicity of (+)-2,2'-Episitoskirin A from Endophytic Fungus <i>Diaporthe</i> sp. In Gambir Plant ( <i>Uncaria gambir</i> Robx.) for Mice
P2 C30	Rosario G. Monsalud University of the Philippines Los Baños College Laguna	Actinomycetes Isolated from Agricultural Soil in Bukidnon with Anti-microbial Activity Against Methicillin-resistant <i>Staphylococcus aureus</i>
P2 C31	Dyanne Jane C. Duldulao Nueva Ecija University of Science and Technology, Philippines	Isolation and Characterization of Soy Protein for Soy Protein Nanoparticles Synthesis
P2 C32	Richie Mae U. Abache University of Santo Tomas	Partial Least Square Regression Modeling of the Factors Affecting the Risk for Obesity of Graveyard Shift Call Center Agents
P2 C33	Adityo Wicaksono Center for Innovation LIPI, Indonesia	Global Trend on Antimicrobial Inventions Versus Antimicrobial Resistance



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# ACKNOWLEDGEMENTS

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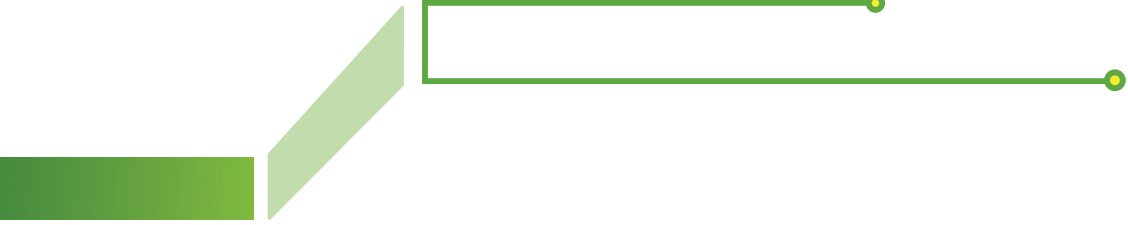
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**Published by:  
National Research Council of the Philippines  
General Santos Avenue, Taguig City  
Philippines  
(+63-2) 837-6141  
[www.nrcp.dost.gov.ph](http://www.nrcp.dost.gov.ph)**

