



THE 19TH SCIENCE COUNCIL OF ASIA CONFERENCE

Research and Innovation for Sustainable Development in Asia

PROGRAM OF ACTIVITIES

3rd - 5th December 2019

Myanmar Academy of Arts and Science (MAAS)

Nay Pyi Taw, Myanmar



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MESSAGE



It is a great pleasure and inspiring experience to host the 19th Science Council of Asia Conference, held with the theme " Research and Innovation for Sustainable Development in Asia" in Nay Pyi Taw, Myanmar.

This conference is particularly timely as all Member States are unanimously supporting research and innovation to achieve the Sustainable Development Goals (SDGs) of the United Nations 2030 Agenda.

A comprehensive range of the conference sessions reflects a very topical agenda as it provides a wonderful platform and opportunity for several experts, academia, scholars and researchers to exchange their break-through ideas, profound knowledge and invaluable experiences.

I sincerely hope this conference will help to identify ways to bring forward the transformative sustainability agenda and better align research and innovation policies with the SDGs, as set out in the United Nations Agenda 2030 for sustainable development.

To all delegates, I would like to suggest that we adopt innovation in science, technology, engineering and mathematics as integral elements of the strategies for SDGs. I would like to request you to produce action-oriented outcomes of the conference and keep supporting research and innovation for sustainable development in Asia.

Before I conclude, I wish all delegates and participants an enjoyable stay in Myanmar.

Thank you.

Dr Myo Thein Gyi
Union Minister for Education, Myanmar

MESSAGE



It is my great pleasure to welcome you all on behalf of Science Council of Asia(SCA) to the 19th SCA conference that brings together experts of scientific organizations to discuss " Research and Innovation for Sustainable Development in Asia". I thank all the conference hosts, the Myanmar Academy of Arts and Science(MAAS), and the SCA Secretariat. Thanks to their excellent effort, the SCA19 is organized jointly and successfully.

To a large extent, Asia's rapid economic development and subsequently booming consumption have prompted critical challenge for environment sustainability. Recently, Oxford Dictionaries and Cambridge Dictionary have named "climate emergency" and "upcycling" as their Word of the Year 2019, respectively. Change is necessary.

The 2030 Agenda, adopted at the United Nations Sustainable Development Summit in September 2015, positioned Science, Technology and Innovation as key means of implementation of the SDGs. Also with a new perspective of economic growth, there is a clear shift towards appreciating the adoption of sustainability standards, which has a positive correlation with increased profit as demand for products with sustainable credentials grows.

Many Asian countries have signed up to the SDGs, made growing commitment to address poverty, clean energy and pollution. New science and technology achievements have been applied to solve specific issues, new approaches have been used towards more sustainable activities.

SCA provides such a collaborative platform for member organizations to promote scientific exchange and cooperation, and to reach mutual understanding. We will continue to play a central role to face the common challenges for sustainable development in Asia and lead to a bright future.

Wishing you all a fruitful and joyful stay in Nay Pyi Taw and looking forward to your active participation in the Conference.

Prof. Dr. Wang Xi
President, Science Council of Asia

MESSAGE



Millennium Development Goals (MDGs) came to an end in December 2015; certain agenda of MDGs had been left unfinished. In 2015, UN General Assembly adopted the post 2015 Development Agenda and set Sustainable Development Goals (SDGs). The 2030 Global Development Agenda came into effect on 1st January, 2016 with the prospect of covering the five aspects: People, Planet, Prosperity, Peace and Prosperity. The approach to SDGs can be initiated through a different angle. For instance, People: End Poverty and Hunger in all forms and ensure dignity and equality; Planet: Protect our planet's natural resources and climate for future generations; Peace: Foster peaceful, just and inclusive societies; Prosperity: Ensure prosperous and fulfilling lives in harmony with nature.

Living beings inherited the earth, the only planet in the solar system, in which all known life forms can flourish. Human beings are the most intelligent species on earth. Throughout history, they try to change their environment to suit their needs and satisfy their desires. Among the continents, Asia happens to be the most populous region in the world. China and India, each with one billion plus population, have emerged as economic powers. Japan, Korea, Taiwan, and ASEAN TEN too witnessed economic growth. Inventions and innovations contributed to industrial revolutions. The fourth forthcoming inventions of IT and AI are expected to change traditional modes of manufacturing, transportation and urban amenities.

In 21st century, research across various countries in Asia highlight inter-linkages between natural resources and sustainable development goals along with the impact of climate change. The human society is seeking ways to safeguard human's wellbeing and to guarantee the sustainable use of resources. At the same time, it also tries to conserve the environment from natural calamities like floods, earthquakes, volcanic eruptions, drought, etc. so that our future generations will be inherited with green and peaceful environment.

I, on behalf of Myanmar Academy of Arts and Science, would like to express my deep appreciation to all those involved in making the conference a success. Special mention needs to be made to SCJ which co-hosted the SCA19 conference with MAAS for their guidance, support, co-operation and coordination. We fervently believe that the conference will provide our guests a cordial atmosphere for sharing experiences and exchanging views. The deliberations from this conference are expected to bring into light, effective means and ways for resolving common issues people are currently facing in Asia and elsewhere.

Dr Thet Lwin
President of MAAS

MESSAGE



I am pleased to announce that the 19th Science Council of Asia (SCA) Conference is held in Nay Pyi Taw, Myanmar. First of all, I would like to express my sincere gratitude to Myanmar Academy of Arts and Science (MAAS) for its enormous efforts to prepare for this Conference. I also would like to express my deep appreciation to Member Organizations and SCA Secretariat for their cooperation and contribution in organizing this Conference and all the people who support it.

The theme of the 19th SCA Conference is “Research and Innovation for Sustainable Development in Asia”. As you might already know, the purpose of SCA established in 2000 is “to facilitate scientific cooperation in Asia towards the progress in science and sustainable development of the region”. With this purpose, SCA has contributed to society through the collaboration with academies in the region. Under such circumstances, “Transforming our world: the 2030 Agenda for Sustainable Development” with the 17 Sustainable Development Goals (SDGs) and 169 targets was adopted at the UN General Assembly in 2015. Since then, the efforts to realize the sustainable development in which a key principle is “no one will be left behind” have started at global level. We must continuously and collaboratively address a wide range of issues facing us since they are so challenging in the sense that human beings have never experienced them before.

The 19th SCA Conference is held for 3 days and nearly 180 presentations (oral and poster) are scheduled. I am delighted to know that we have received many applications exceeding our expectation. It indicates a high level of interest in this Conference’s theme, “Research and Innovation for Sustainable Development in Asia”. In the Conference, there are four (4) sub-themes that are discussed in their respective sessions. The main theme and sub-themes of the Conference have been carefully selected in order to inspire scholars and researchers in Asia to undertake interdisciplinary researches in partnership to contribute to the realization of the 17 SDGs.

This Conference is an advantageous opportunity to build a network of scholars in and outside the country. I am sure that there would be abundant outstanding discussions at this Conference.

Professor Hiroshi Yoshino
Secretary General / Treasurer of SCA



Themes



- 🌐 Revitalize Asian Partnership
- 🌐 Promote Skills
- 🌐 Diversify Utilization of Resources
- 🌐 Alleviate Poverty

**RESEARCH AND INNOVATION FOR
SUSTAINABLE DEVELOPMENT IN ASIA**

Revitalize Asian Partnership for Achieving Sustainable Development

- Ensure access to affordable, reliable, sustainable and modern energy for all
- Build resilient infrastructure, promote sustainable industrialization and foster innovation
- Development of Healthy Cities
- Take urgent action to mitigate and adapt to climate change and its impact
- Disaster Risk Reduction

Promote Skills Development for Economic Growth

- Decent work, economic growth and employment
- Quality education, ensure inclusive and quality education for all and promote lifelong learning
- Ensure that all girls and boys take completely free, equitable and quality primary and secondary education
- Ensure that all learners acquire the knowledge and skills needed to promote sustainable development

Diversify Utilization of Natural Resources for Sustainable Development

- Ensure access to water and sanitation for all
- Ensure sustainable consumption and production patterns of energy sources
- Conserve and sustainable use of the oceans, seas and marine resources and protect rivers
- Manage forests and halt biodiversity loss

Alleviate Poverty through Socio-economic Development

- End poverty in all its forms everywhere
- End hunger, achieve food security and promote sustainable agriculture
- Medical care for good health and well-being

Program at a Glance

Theme : "Research and Innovation for Sustainable Development in Asia"

Organizers : Myanmar Academy of Arts and Science (MAAS) and Ministry of Education

Date : 3rd-5th December 2019

Venue : Grand Amara Hotel, Nay Pyi Taw, Myanmar

Day 1

Venue	Pinya	Taungoo	Innwa	Kone Baung	Pinya
Opening Ceremony					
9:10	Opening Remarks Union Minister, Ministry of Education				
	Welcome Speech President of SCA				
9:30	Congratulatory Address President of MAAS				
Keynote Speech					
9:30	KeynoteAddress1				
10:30	KeynoteAddress2				
Break (10:30 - 11:00)					
11:00		Parallel Session -1	Parallel Session -1	Parallel Session -1	Parallel Session -1
12:30		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
Lunch (12:30 - 14:00)					
Poster Session 13:00-14:00					
14:00	Parallel Session -2	Parallel Session -2	Parallel Session -2	Management Board Meeting	Parallel Session -2
15:30	Sub-theme -3	Sub-theme -1	Sub-theme -2	(SCA Board Members Only)	Sub-theme -4
Coffee Break (15:30 - 16:00)					
16:00	Joint Project-1 (SATREPS Project of			Joint Project-2	
17:30	YTU)			(Organized by SCJ)	
Break 17:30-18:30					
Welcome Dinner Reception Organized by MAAS (Invitation only) Diamond Restaurant (18:30-20:30)					

Day-2

Keynote Speech					
9:30	KeynoteAddress1				
10:30	KeynoteAddress2				
Break (10:30 - 11:00)					
11:00		Parallel Session -3	Parallel Session -3	Parallel Session -3	Parallel Session -3
12:30		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
Lunch (12:30 - 14 :00)					
Poster Session 13:00-14:00					
14:00		Parallel Session -4	Parallel Session -4	Parallel Session -4	Parallel Session -4
15:30		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
Break (15:30 - 16:00)					
16:00		Parallel Session -5	Parallel Session -5	Parallel Session -5	Parallel Session -5
17:30		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
17:30				Management Board Meeting	
18:30				(SCA Board Members Only)	
Break (17:30-18:30)					
Farewell Dinner Reception Organized by SCJ (Invitation only) Diamond Restaurant (18:30-20:00)					

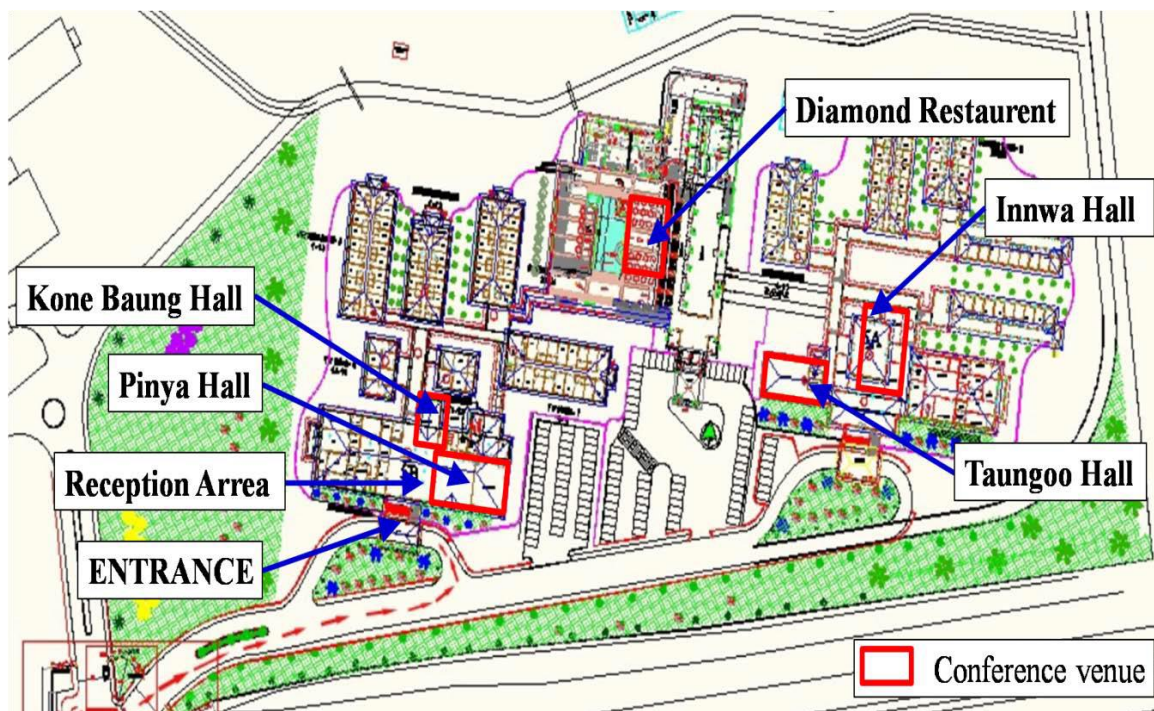
Day-3

9:00		Parallel Session -6	Parallel Session -6	Parallel Session -6	Parallel Session -6
10:30		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
Break (10:30 - 11:00)					
11:00		Parallel Session -7	Parallel Session -7	Parallel Session -7	Parallel Session -7
12:00		Sub-theme -1	Sub-theme -2	Sub-theme -3	Sub-theme -4
Lunch (12:00 - 13:00)					
Closing Session					
13:00	Declaration of SCA Statement				
14:00	President of SCJ				
	Greeting from President-Elect				
	Flag Ceremony				
14:00	Sight Seeing (International Participants only)				
18:00					

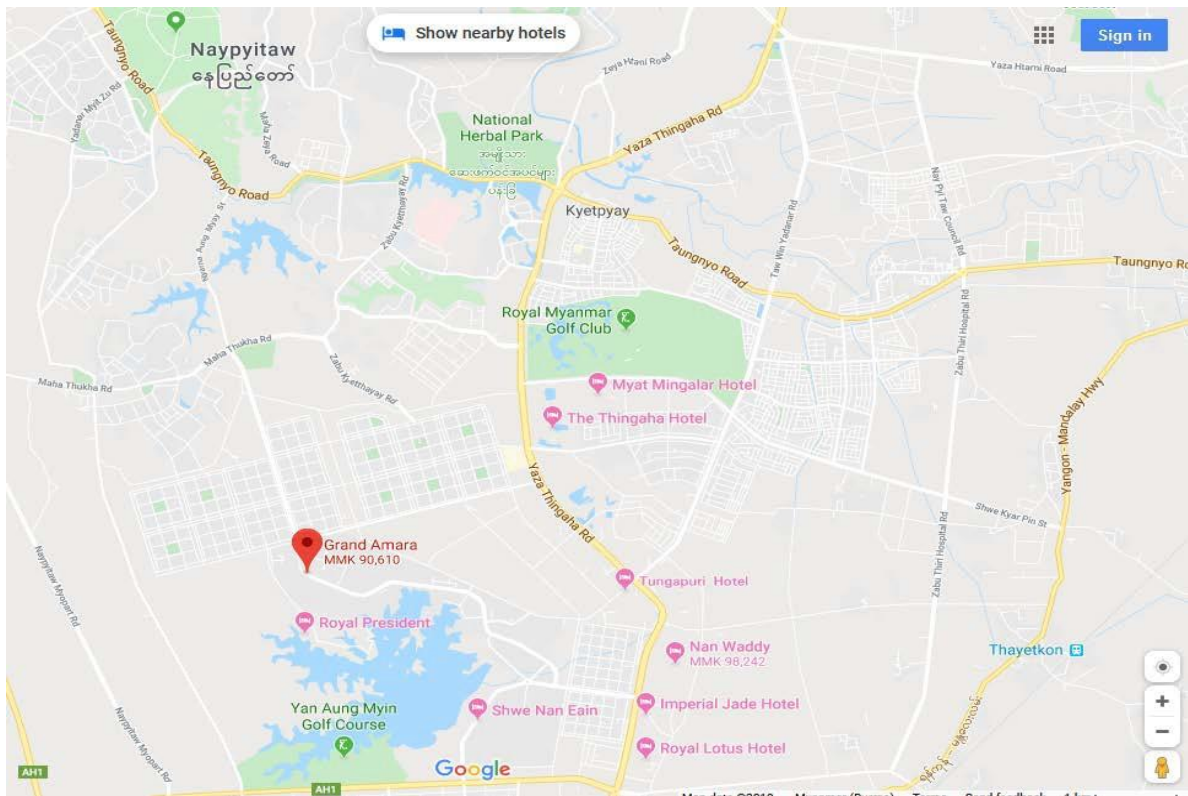
Grand Amara Hotel



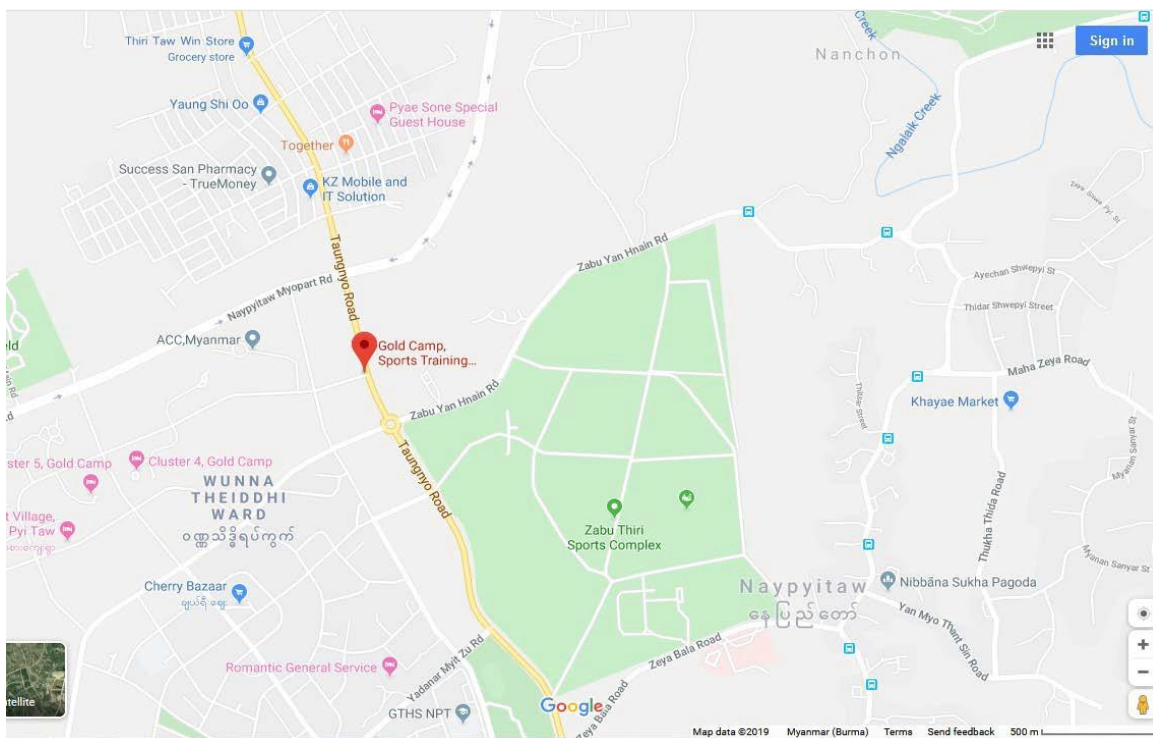
Floor Map of Grand Amara Hotel



Grand Amara Hotel Map



Gold Camp Map



Research and Innovation for Sustainable Development in Asia

Day -1

3rd December 2019, Tuesday

08:00 - 09:10 Registration

Reception Area

09:10 - 09:30 Opening Session

Pinya Hall

MC1: Assistance Prof. Dr Yin Myat Phyu Win (English)
Department of English,
Yangon University of Foreign Languages, Myanmar

MC2: Lecturer Daw Thida Oo (Myanmar)
Department of Myanmar,
Yangon University of Foreign Languages, Myanmar

Opening Remark

- Dr Myo Thein Gyi, Union Minister, Ministry of Education, Myanmar

Welcome speech

- Prof. Wang Xi, Vice President, China Association for Science and Technology (CAST),
Vice Minister, Ministry of Science and Technology, China

Congratulatory Address

- Dr Thet Lwin, President, Myanmar Academy of Arts and Science, Myanmar

09:30 - 10:30 Keynote Address

Dr Bambang Susantono
Vice-President
The Asian Development Bank (ADB)

Dr U Than Oo
First President
The Myanmar Academy of Arts and Science (MAAS),

Myanmar
10:30 -11:00 Tea Break

11:00 - 12:30 **Parallel Session (1)**

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Dr Tsutomu KOMURO
Acting General Manager
Taisei Corporation

11.1 The innovation of house building industry in Japan

Prof. Kazunobu MINAMI, Professor, Department of Architecture, Shibaura Institute of Technology, Japan

11.2 Adsorptive Removal of Copper(II) and Nickel(II) Ions from Aqueous Solution by Using Low Cost Adsorbent from Toddy Buds

Dr Naing Min Tun, Lecturer, Department of Chemistry, University of Yangon, Myanmar

11.3 Mold and Dampness in Unplanned Urban Houses in the Hot and Humid Climate of Indonesia

Dr Tetsu KUBOTA, Associate Professor, Hiroshima University, Japan

11.4 Retail Site Location in Dagon Myothit (North) Township Using GIS

Dr Khin Mi Mi Win, Associate Professor, Department of Geography, University of Yangon, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth
Innwa Hall

Session Chair : Dr Marieta Bañze Sumgaysay
Executive Director
National Research Council of the Philippines (NRCP)

- 12.1 A Study on Attitude towards Science and Achievement of Grade 8 Students From Chanayetharzan Township**
Daw Ohmmar Win, Lecturer, Department of Educational Psychology, Sagaing University of Education
- 12.2 Towards a Better Organizational Innovation: the Determinants of Efficiency in Vietnamese Manufacturing SMEs**
Ms. Kana HARAGUCHI, PhD Student, Graduate School of International Cooperation Studies, Kobe University, Japan
- 12.3 Measurement of the Neutron Fluxes in Two Irradiation Channels of Isotopic Neutron Source Facility using Neutron Activation Analysis (NAA) Method**
Dr Khin Ye Lwin, Division of Atomic Energy, Ministry of Education
- 12.4 A Morphophonemic Analysis of Myanmar Language**
Dr Tun Aung Kyaw, Professor, Yangon University of Distance Education, Myanmar

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Thazin Lwin
Professor & Head, Department of Chemistry, Yangon University of Distance Education

- 13.1 Current Household Energy Use and Transition Toward Cleaner Energy Sources in Nepal**
Mr. Pokharel Tika Ram, Student, Tokyo City University, Japan
- 13.2 Distribution and Status of Sarus Crane Grus Antigone in Wetlands of Ayeyarwady Region**
Dr Myo Sandar Win, Lecturer, Department of Zoology, University of Yangon, Myanmar

13.3 Passiveness toward Drinking Water in Coastal Bangladesh: A Case Study of Rainwater Harvesting"

Mr. Shota YAMADA, PhD Student, Graduate School of International Relations, Ritsumeikan University, Japan

13.4 Home Range of Arakan Forest Turtle *Heosemys depressa* in Buffer Zone of Rakhine Yoma Elephant Range, Gwa Township, Rakhine State

Dr Hein Htet Lwin, Assistant Lecturer, Department of Zoology, Myeik University, Ministry of Education Survival Alliance (WCS), Myanmar

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Seung Woo Park
Member,

The National Academy of Sciences Republic of Korea
(NASROK), Korea

14.1 Co-creation of Sustainable Regional Innovation for the Challenge of Reducing Risk on High-Impact Environmental Pollution

Prof. Masayuki SAKAKIBARA, Research Institute for Humanity and Nature, Kyoto, Japan

14.2 Sustainable Culture: Burmese Lacquerware

Ma Theint Theint Aung, Postgraduate Student, SOAS University of London, Myanmar

14.3 Toward Rabies Elimination: Japan's Experience, Sri Lanka's Goal by 2020, and Its Application to Myanmar Context

Dr Koji KANDA, Assistant Professor, Department of Social Medicine, Asahikawa Medical University, Japan

14.4 The Porifera (Sponges) of Tanintharyi Region and Its Potential Use in Natural Medicine

Dr Nang Mya Han, Professor and Head (Retd.), Department of Marine Science, Myeik University, Myanmar

12:30-14:00 Lunch Break Diamond Restaurant

13:00- 14:00 Poster Session

14:00-15:30 Parallel Session (2)

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Prof. Dr Frauke Kraas
Professor, University of Cologne, Germany
Visiting Professor, Department of Geography, University of Yangon

- 21.1 The Historical Context as Unique Basis for Internationally-Assisted Urban Master Plan in Myanmar – Cases of Yangon and Mandalay**
Mr. Koji YAMADA, Chief Planner, Tokyo Office, Tamano Consultants Co., Ltd., Japan
- 21.2 Geospatial Analysis of Solid Waste Management in Bago City, Myanmar**
Dr Khin Khin Htay, Associate Professor, Department of Geography, Bago University, Myanmar
- 21.3 Establishment of Sustainable Port Criteria in Myanmar**
Dr Mee Mee Soe, Lecturer, Myanmar Maritime University, Myanmar
- 21.4 Effective Control of Hybrid Solar-Hydro Renewable Energy System**
Daw Wut Hmone Oo, Department of Physics, Dawei University, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Mr. Mahesh Prasad Madhukar
Deputy Director & In-charge (International Collaboration)
Indian Council of Social Science Research (ICSSR)

- 22.1 Economic Development and SME Policy in Lao PDR-A comparative study with Vietnam-**
Prof. Souksavanh Vixathep, Associate Professor, University of Hyogo, Japan
- 22.2 Bioaccumulation of Metals in Gills and Liver of Some Fishes of Different Feeding Habits and Water and Sediment of Ayeyawady River Segment, SaLe Environs**
Dr Cho Cho Thin, Lecturer, Department of Zoology, University of Yangon, Myanmar
- 22.3 Aquaculture Development in Myanmar: Evolving policies and implications**
Dr Thida Kyu, Pro-rector, Meiktila University of Economics, Myanmar
- 22.4 Impacts of Infrastructures on River**
Dr Kyi Kyi Lwin, Department of River and Coastal Engineering, Myanmar Maritime

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Pinya Hall

Session Chair : Dr Maung Kyaw

Member, Myanmar Academy of Arts and Science,
(MAAS)Myanmar

- 23.1 Overcoming Energy Poverty in Cambodia and Emerging Issues**
Prof. Kazuhiro FUKUYO, Dean/Professor, Yamaguchi University, Japan
- 23.2 Production of Starch Based Bioplastic from Cassava Reinforced with Microcrystalline Cellulose Using Sorbitol as Plasticizer**
Dr Yin Min, Associate Professor, Department of Chemistry, East Yangon University, Myanmar
- 23.3 Study on Ion-Exchange of Toxic Lead in a Model System by Metal-Humate Complexes**
Dr Naw Aye Aye Thein, Lecturer, Department of Chemistry, University of Yangon, Myanmar

23.4 Modification and Enzyme Immobilization of Natural Cellulose Fiber (Polysaccharide)

Dr Mya Mya Sainn, Lecturer, Department of Chemistry, University of Yangon, Myanmar

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Daw Carol Ann Chit Tha
Vice-President, Myanmar Academy of Arts and Science,
Myanmar

24.1 Monitoring and Modeling Environmental Sustainability Indices for Intensified Agriculture in South Korea

Dr Seung Woo Park, Member, The National Academy of Science, Republic of Korea, Korea

24.2 Associations Between Dengue and Meteorological Conditions in Rural Myanmar

Dr Thwe Thwe Khaing, Professor, Yadanabon University, Myanmar

24.3 Sustainable Power of Urban Growth from the Standpoint of Investment and Global Division for the Industry of Upscale clothing: The Case Study of Jingumae Shibuya Ward Tokyo

Prof. Tomomi MITA, Associate Professor, The Department of Administrative Studies, Prefectural University of Kumamoto, Japan

24.4 Study on Radiation Safety Activities for Health Sector in Myanmar

Dr Aye Aye Thin, Deputy Director, Material Science Research Division, Department of Research and Innovation, Myanmar

14:00-15:00 Kone Baung Hall
SCA Management Board Meeting (SCA Board Members Only)

15:30 - 16:00 Tea Break

16:00-17:30 Pinya Hall
Joint Project Workshop (1)

Brief Introduction to SATREPS Project of YTU

- **Brief Introduction of SATREPS Project**
Speaker: Prof. Dr Khin Than Yu, Pro-Rector (Retired)
- **Activities and Outcomes of Flood Related Disaster Research Group**
Speaker: Prof. Dr Win Win Zin
- **Introduction to Remote Sensing and GIS Research Center**
Speaker: Director Dr Sao Hone Pha
- **Activities and Outcomes of Infrastructure Research Group**
Speaker: Associate Prof. Dr Khin Maung Zaw
- **Activities and Outcomes of Transportation and Human Mobility Research Group**
Speaker: Associate Prof. Dr Kyaing
- **Activities and Outcomes of Earthquake Disaster and Disaster Management Research Group**
Speaker: Prof. Dr Tun Naing
- **Disaster Management Support System for Yangon**
Speaker: Associate Prof. Dr Muneyoshi NUMADA

YTU Panel Discussion: How the Research Outcomes of SATREPS Project Can Support for the Sustainable Development

Moderator: Prof. Dr Tun Naing

Panelist : Prof. Dr Khin Tan Yu

Prof. Dr Win Win Zin

Prof. Dr Kyaing

Associate Prof. Dr Khin Maung Zaw

Associate Prof. Dr Muneyoshi NUMADA

16:00-17:30 **Kone Baung Hall**
Joint Project Workshop (2)

- **JICA's Cooperation in Health and Education Sector (Focusing on Academic Support)**
Mr. IWAI Nobuo, Senior Representative, JICA Myanmar Office

- **Overview and Issue on Education Sector**
Prof. Dr MUTA Hiromitsu, Vice President, International Development Center of Japan Former Education Policy Advisor of JICA
- **International collaboration for rice breeding based on genomic technology and Information in Vietnam and Myanmar**
Dr YOSHIMURA Atsushi, Professor, Kyushu University, JAPAN / Chief Advisor, JICA Project for Capacity Development of Yezin Agricultural University, Yezin Agricultural University
- **Mangrove Conservation, Restoration and Rehabilitation for Global and Local Benefits**
Dr Toe Aung, Assistant Director (Mangrove Conservation Unit) Watershed Management Division Forest Department Ministry of Environmental Conservation and Forestry, Myanmar

17:30-18:30 Break

18:30-20:30 Welcome Dinner

Day -2
4rd December 2019, Wednesday

09:30 - 10:30	Keynote Address
09:30 – 10:00	Prof. Kimiro MEGURO Professor, Institute of Industrial Science, The University of Tokyo, Japan
10:00 – 10:30	Prof. Dr Charlie Than President of Myanmar Engineering Council, Myanmar

10:30 - 11:00 Tea Break

11:00 - 12:30 **Parallel Session (3)**

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Dr U Win
Member, Myanmar Academy of Arts and Science

- 31.1 Applying High Performance Seismic Structures to All Asian Countries**
Dr Tsutomu KOMURO, Member, Science Council of Japan, Professor Emeritus, Tokyo Institute of Technology, Japan
- 31.2 Analysis of Some Heavy Metals Concentrations in Muscle Tissue of Three Fish Species and Environs, Thanlwin River Segment of Mon State**
Daw Yee Yee Win, Lecturer, Department of Zoology, Mawlamyine University, Myanmar
- 31.3 Analysis of Elemental Concentration in Kye Pe (*Plukenetia Volubilis*) Samples by Using EDRXF Technique**
Dr Khin Shwe Tint, Lecturer, Physics Department, Yadanabon University, Myanmar

- 31.4 Importance of Soil Moisture Balance and Soil Texture in Yields of Crop: A Case Study of Thayetlaypin Village Tract in Magway Township**
Dr Hlaing Myo Myo Htay, Professor, Department of Geography, University of Magway, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Dr Masayuki SAKAKIBARA
Professor, Research Institute for Humanity and Nature, Japan

- 32.1 The Implication of Project Based Learning to Enhance Attitude toward Biology Learning**
Dr Nu Nu Nyunt, Lecturer, Yangon University of Education
- 32.2 Preparation, Performance of Hybrid Giant Reed (Arundo Donax L.) Fiber/Rattan Fiber (Calamus Rotang L.) Urea-Formaldehyde Composites and Application**
Dr Saw Win, Associate Professor, Department of Engineering Chemistry, West Yangon Technological University, Myanmar
- 32.3 Why popular factors for success do not lead success? The three types of Omissions that exclude useful information out of successful cases**
Prof. Shin Ichiro IRIE, Assistant Professor, Kyoto Institute of Technology, Japan
- 32.4 Relationship between Teacher-student Interaction and Student Motivation** Daw Win Win Thein, Associate Professor, Educational Theory Department, Sagaing University of Education, Myanmar

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Ye Ye Myint
Member, Myanmar Academy of Arts and Science, (MAAS)
Myanmar

- 33.1 Preparation of micro fibrillated cellulose from Bakong (Hanguana malayana (Jack) Merr. and its application as paper reinforcement**
Mr. Glenn Christian Puertillano Acaso, Student, University of the Philippines Los Baños, Philippines
- 33.2 Morphological Study and Chemical Composition of Seeds of Avocado Plant**
Dr Khin Myo Thwet, Associate Professor, Department of Botany, Taunggyi University, Myanmar
- 33.3 Ecological Study on Clouded Monitor Lizard Varanus Nebulosus (Gray, 1831) in Hlawga Wildlife Park, Yangon Region**
Dr Win Zaw, Lecturer, Department of Zoology, University of Yangon, Myanmar
- 33.4 Ecological Diversity of Bivalve Shells in Southern Mon Coastal Water of Myanmar**
Dr Naung Naung Oo, Assistant Lecturer, Marine Science Department, Mawlamyine University, Myanmar

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Myo ThantTynn
Member, Myanmar Academy of Arts and Sciences (MAAS),
Myanmar

- 34.1 Challenging Inequalities: The Decentralized Hands-on Program Exhibition (D-HOPE) as an Alternative Rural Development Approach**
Ms. Yumiko OKABE, Executive Director, Institute for Community Design, Japan
- 34.2 Effect of Scattering Layer on Photovoltaic Performance of Solid-state Dye-sensitized Solar Cells (ssDSSCs) using Red Spinach Dye Extracts**
Dr Nan Kyi Kyi Thein, Assistant Lecturer, Materials Science Research Laboratory
Department of Physics, University of Mandalay, Myanmar

**34.3 Simulation System of Heat Acclimation in Labor Working Environment ---
Focusing on the Evaluation of Acclimation by Place of Birth---**

Mr. Hiroyuki WARIISHI, Postgraduate Student, Toyo University, Kanto Polytechnic College, Japan

34.4 Different types of Jade produced in Myanmar (Burma)

Daw Thida Oo, Lecturer, Department of Myanmar, Yangon University of Foreign Languages, Myanmar

12:30-14:00 Lunch Break Diamond Restaurant

13:00-14:00 Poster Session

14:00 - 15:30 Parallel Session (4)

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Prof. U Thein Oo Poe Saw
President, Myanmar Academy of Technology

41.1 Operation Models of Mini-Grid in Myanmar: The case of Shan State

Prof. Kensuke YAMAGUCHI, Project Assistant Professor, Policy Alternatives Research Institute (PARI), The University of Tokyo, Japan

41.2 Health Risk Assessment of Pollution Near Public Dug Wells Along Shwe Ta Chaung Creek

Dr Aye Myat Mon, Lecturer, Department of Physics, Banmaw University, Myanmar

41.3 Health Risk Assessment of Heavy Metals Via Consumption of Vegetables

Dr Me Me Nyunt, Lecturer, Department of Physics, Yadanabon University, Myanmar

41.4 PC-Based Ultrasound Object Detection System

Dr Aung Naing Oo, Lecturer, Department of Physics, Yadanabon University, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Daw Khin Latt

Member, Myanmar Academy of Arts and Science (MAAS),
Myanmar

42.1 Educational Service Quality of Meiktila University of Economics in Myanmar (Case Study: Master of Public Administration Programme)

Dr Thida Htoo, Professor & Head, Meiktila University of Economics, Myanmar

42.2 The Traditional Monk's Bowl as Sustainable Development in Inn-wa Village, Mandalay Region, Myanmar

Dr Lei Shwe Sin Myint, Associate Professor, Department of Anthropology, University of Mandalay, Myanmar

42.3 Early School life: Importance of Caregivers' Role in Educational Culture

Dr Khin Moe Moe Kyu, Associate Professor, Dagon University, Myanmar

42.4 Social Support as a Mediator between Emotional Intelligence and Job Satisfaction of Employees in Yangon

Dr May Lwin Nyein, Assistant Lecturer, Department of Psychology, University of Mandalay, Myanmar

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Seung Woo Park

Member, The National Academy of Science, Korea

- 43.1 Anatomy Structure of Pericarpium and Pome Fruit**
Dr Rina Hidayati Pratiwi, Lecturer, Universitas Indraprasta PGRI, Indonesia
- 43.2 Investigation of Phytochemicals and Some Bioactivities of *Smallanthus Sonchifolius* & yacon Leaves**
Dr Khin Chaw Win, Lecturer, Department of Chemistry, University of Yangon, Myanmar
- 43.3 Investigation of Chemical Constituents and Bioactivities of Some Organic Compounds from Rhizomes of *Boesenbergia pandurata* (Roxb.) Schltr. (Seik-Phoo) (Red and Yellow Varieties)**
Dr Aye Myint Sein, Associate Professor, Department of Chemistry, Maubin University, Myanmar
- 43.4 Study on the Antimicrobial, Antioxidant Activity and Cyto-Toxicity of Myanmar Traditional Medicine (Na-Ga-Ni-A-Phay-Kyaw) Used as Remedy for Food Poisoning**
Dr Khin Htwe Kyaing, Lecturer, Department of chemistry, Yadanapon University, Myanmar

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Day WaAung,
Professor & Head, Department of Geology, University of Yangon

- 44.1 Basic Study on the Foundation Pile Length Setting System and its 3D Display Technique from the Viewpoint of environmental Engineering -- Applications to Model Areas in Japan's Capital Region –**
Mr. Naito TANJI, Undergraduate Student, Tanaka Laboratory, Toyo University, Japan
- 44.2 Socio-economic technique changes in Myanmar (1953-1964)**
Dr Khin Khin Si, Professor, Department of History, Patheingyi University, Myanmar

44.3 Factors Influencing on Operational Sustainability of Selected Cooperative Microfinance in Southern Shan State

Dr Kyar Ngon Sann, Lecturer, Department of Commerce, Meiktila University of Economics, Myanmar

44.4 Sustainable rural development: Significance of Geographical Indications (GIs) in Ayeyarwady Delta

Dr Htun Ko, Professor and Head, Geography Department, University of Yangon, Myanmar

15:30-16:00 Tea Break

16:00 - 17:30 Parallel Session (5)

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Dr Hla Phe

Member, Myanmar Academy of Arts and Science (MAAS),
Myanmar

51.1 Green Synthesis and Characterization of Chitosan-Copper Nanoparticle Used as Antimicrobial and Antitumor Activities

Dr Aung Than Htwe, Assistant Lecturer, Department of Chemistry, University of Yangon, Myanmar

51.2 Determination of Ion Occupation Model in Spinel Lettice

Dr Aye Aye Thant, Professor, Department of Physics, University of Yangon, Myanmar

51.3 Development of Antimicrobial Ointment from Philippine Pomegranate Fruit Peel

Prof. Anna Muriel Talavera Jacinto, Assistant Professor, University of Perpetual Help System DALTA Las Pinas City Philippines, Philippines

51.4 A Study on Structural Properties and Biological Response of HAP/ β -TCP

Dr Nay Win Tun, Assistant Lecturer, Department of Physics, Dagon University, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Dr Tin Nyo
Member, Myanmar Academy of Arts and Science

52.1 The Effect of Guided Discovery Method in Teaching Science at the Middle School Level

Dr Khin Mar Khine, Associate Professor, Methodology Department, Yangon University of Education, Myanmar

52.2 A Study of Pre-service and In-service Teachers' Perceptions on Co-curriculum Activities

Daw Soe Soe Thein, Lecturer, Methodology Department, Sagaing University of Education, Myanmar

52.3 Relationship Between Achievement Goal Orientation and Approaches to Learning: A Study on Student Teachers in Sagaing District

Dr Yar Zar Chit, Assistant Lecturer, Department of Educational Psychology, Sagaing University of Education, Myanmar

52.4 The Sociolinguistics study of Myanmar Syntax Error from Current Myanmar Journals

Dr Mon Mon Aung, Associate Professor, Department of Myanmar, Dawei University, Myanmar

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Nan Mya Han
Professor and Head (Retd.),
Department of Marine Science, Myeik University, Myanmar

53.1 The Role of Career Development for Employee Job Satisfaction

Dr Khin Marlar Maung, Lecturer, Meiktila University of Economics

53.2 Natural Water Filter by using Plant Xylem from Pine Tree and H₂S Paper-Strip Test

Dr Khin Lay Thwe, Lecturer, Environment and Water Studies Department
University of Yangon Research Center, Myanmar

53.3 Morphodynamics Modelling in a Data-Scarce Environment: The Chindwin River

Dr Khin Kyu Kyu, Professor/Head, Department of River & Coastal Engineering
Myanmar Maritime University, Myanmar

53.4 Spectral Analysis of Transition Metal Carbides for Sustainable Industrial Development

Dr Thi Thi Lay, Department of Chemistry, Josai University Japan

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Aung Min

Vice-President, Myanmar Academy of Arts and Science,
Myanmar

54.1 GCMS Analysis and Antimicrobial Activity of Ginger Essential Oil

Dr Myo Min, Associate Professor, Department of Chemistry, West Yangon University, Myanmar

54.2 Greensynthesis of Silver Nanoparticles from Eupatorium odoratum Linn. (Taw-Bizat) and Cymbopogon citratus Stapf (Lemon Grass) leaves

Dr Nwe Thin Ni, Associate Professor, Department of Chemistry, Taungoo University, Myanmar

54.3 SEZ and FDI from China in Myanmar: Benefit or Burden?

Dr Thi Thi Soe San, Associate Professor, Department of International Relations
Mandalay University, Myanmar

**54.4 Morphological, Phytochemical Investigation and Antimicrobial Activity on
Roots of *Houttuynia cordata* Thunb.**

Dr Tin Tin Maw, Associate Professor, Department of Botany, Kyaing Tong
University, Myanmar

17:30-18:30 **Kone Baung Hall**
SCA Management Board Meeting (SCA Board Members Only)

17:30-18:30 Break

18:30-20:00 **Diamond Restaurant**
Farewell Dinner Reception (hosted by SCJ)(Invitation Only)

Day - 3
5th December 2019, Thursday

9:00 - 10:30 Parallel Session (6)

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Prof. Dr M. Shamsheer Ali
Professor Emeritus, Southeast University,
Past President, Bangladesh Academy of Sciences (BAS)

61.1 Image Processing In Characterization & Morphological Analysis of Nanostructured Material Images

Dr Khin Khin Win, Professor, Department of Physics, University of Yangon, Myanmar

61.2 Formation of Calcium Hydroxide (Ca(OH)₂) Nanorods for CO₂ Adsorption

Dr Nwe Ni Hlaing, Lecturer, Department of Physics, University of Taunggyi, Myanmar

61.3 The Updated Probabilistic Seismic Models 2018: Revised Version

Dr Myo Thant, Professor, Department of Geology, University of Yangon, Myanmar

61.4 Seismic Microzonation at Taungthaman area, Mandalay Region

Dr Pyi Soe Thein, Lecturer, Department of Geology Yadanabon University

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Prof. Kazuhiro FUKUYO
Dean/Professor, Yamaguchi University, Japan

62.1 Engendering S&T Research and Innovation for Inclusive Prosperity

Dr Marieta Bañez, Sumagaysay, Executive Director, National Research Council of the Philippines, Professor, University of the Philippines Visayas, Philippines

- 62.2 Myanmar Language Practice: Brief Approach to Myanmar Linguistic Culture**
Dr Aung Myint Oo, Professor/Head, Department of Myanmar, University of Yangon, Myanmar
- 62.3 A Comparative Study of the usage of "에/e/, 에서/e sO/" in Korean Language and " ၊/hm@/ ၊/Toè" in Myanmar Language**
Daw Htwe Su Hlaing, Lecturer, Department of Korean, Mandalay University of Foreign Languages, Myanmar
- 62.4 Relationship between Women's Empowerment and Socioeconomic Status in Myanmar: An Emphasis on Participation in Household Decision Making and Experience of Domestic Violence**
Dr Mya Thandar, Professor, Department of Statistics, Yangon University of Economics

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Hla Tint
Rector (Retd), Yangon University of Distance Education

- 63.1 Distribution of Water Resources and their Management for Southern Shan State**
Dr Saw Yu May, Associate Professor, Environment and Water Studies Department, Myanmar
- 63.2 Synthesis and Characterization of Rice Husk Derived Bioactive Glass Ceramic**
Dr Min Maung Maung, Associate Professor, Department of Physics, University of Yangon
- 63.3 Antimicrobial Activity and Structure Elucidation of Isolated PHENANTHRENE Derivative Compound from the Root of *Atalantia monophylla* (Roxb.) DC. (Tawshauk)**
Dr Thinn Myat Nwe, Associate Professor, Department of Chemistry, Mandalay University of Distance Education

63.4 Bioaccumulation of Cadmium and Mercury in Green Shells and Assessment of Multi Medium Risk Health in the Coastal Area

Mrs. Anna Rejeki Simbolon, Researcher, Research Center for Oceanography, Indonesian Institute of Sciences, Indonesia

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Daw Than Nwe
Member, Myanmar Academy of Arts and Science, Myanmar

64.1 Information System Development of Hotels in Naypyitaw, Myanmar

Dr Kyi Kyi Thant, Meiktila University of Economics

64.2 Trend and Estimation of Agricultural Sector in Myanmar

Dr Khin Thida Nyein, Professor, Yangon University of Economics, Myanmar

64.3 Improve Students' Knowledge about Negative Impacts About Liquor Through Comic at Pgri Junior High School Bandarlampung

Oki Dermawan, Researcher, Indonesia

64.4 The Strategic Analysis for Tourism Sector Development in Myanmar

Dr Yin Myat Phyu Win, Associate Professor, Department of English, Yangon University of Foreign Languages, Myanmar

11:00 - 12:00 Parallel Session (7)

SUB-THEME 1: Revitalize Asian Partnership for Achieving Sustainable Development

Taungoo Hall

Session Chair : Dr Bayda
Professor, Department of Botany, University of Yangon

71.1 Adsorptive Removal of Colour from Textile Effluent Using Agricultural Wastes as Adsorbents

Dr Nwe Nwe Aung, Lecturer, Department of Chemistry, Yadanabon University, Myanmar

71.2 Detection of Irradiated Herbs and Spices by Photo stimulated Luminescence Analyses

Dr Moe Min Htwe, Deputy Director, Department of Research and Innovation, Myanmar

71.3 A study on the Enhancement of Cement Quality by Extracted silica from Sugarcane Bagasse

Daw Phyu Phyu Lwin, Lecturer, Department of Chemistry, Dagon University, Myanmar

SUB-THEME 2: Promote Skills Development for Sustainable Economic Growth

Innwa Hall

Session Chair : Dr Aung MyintOo

Professor, Department of Myanmar, University of Yangon, Myanmar

72.1 Inclusive Life Long Learning for Making "Sustainable Development" a Reality and Not Merely a Slogan

Dr M. Shamsheer Ali, Fellow & Past President, Bangladesh Academy of Science, Bangladesh

72.2 Profile of Medicinal Plants found at Barangay Muzon, Rosario, Cavite, Philippines

Prof. Anna Muriel Talavera Jacinto, Assistant Professor, University of Perpetual Help System DALTA, Philippines

72.3 A Critical Study of Gender Representation in Life (Intermediate) Course Book

Dr Su Khine Oo, Assistant Lecturer, Department of English, Yangon University of Foreign Languages, Myanmar

SUB-THEME 3: Diversify Utilization of Natural Resources for Sustainable Development

Kone Baung Hall

Session Chair : Dr Ramon ArabeRazel

President, National Research Council of The Philippines

- 73.1 Tourism Development in a Nature Protected Environment: Indawgyi Lake Area**
Dr Zin Mar Than, Research Fellow, University of Cologne, Myanmar
- 73.2 The Effect of Destination, Impacts on Tourism and Quality of Life on Supporting Development of Community-Based Tourism in Myaing**
Dr Aye Thanda Soe, Professor/Head, National Management Degree College, Myanmar
- 73.3 Socio-cultural Factors of Pathel Village, Falam Township in Chin State, Myanmar**
Dr Khin Saw Nwe, Professor/Head, Department of History, Yangon University of Distance Education, Myanmar
- 73.4 Isolation of Piperine from the Fruit of *Piper longum* L. (Peik-chin) and Some Bioactivities of Piperine**
Dr Ei Ei Khaing, Associate Professor, Department of Chemistry, Hinthada University, Myanmar

SUB-THEME 4: Alleviate Poverty through Socio-economic Development

Pinya Hall

Session Chair : Dr Khin Khin Win
Professor & Head, Department of Physics, University of Yangon

- 74.1 Proposal of the simple rapid measurement on the airborne bacterial concentration for the quality control in the industry**
Mr. Ze Liu, Postgraduate Student, Tanaka Laboratory, Toyo University, Japan
- 74.2 Occurrence of Some Insect Pests and their Predators on Pigeonpea, *Cajanus cajan* L. in Shwe Zaloke Area, Monywa Township**
Dr Cho Cho Win, Associate Professor, Department of Zoology, Kalay University, Myanmar
- 74.3 Synthesis and Characterization of Lithium Iron Phosphate for Solid Oxide Fuel Cell Application**
Dr Aye Aye Lwin, Associate Professor, Department of Physics, Loikaw University, Myanmar

12:00-13:00 Lunch Break

13:00-14:00 Closing Session

14:00-18:00 **Sight Seeing (International Participants Only)**

Poster Session 1
13:00-14:00, Tuesday, 3rd December
Conference Room(Pinya Hall)

SUB-THEME 1

ID No.	Presenter	Title
P11.1	Dr Saw Lei Lei Myat, Lecturer, Department of Physics, Pyay University, Myanmar	Study in Fortify the Properties of the Construction Materials from Nattalin Township by the Use of Palm Tree
P11.2	U Nyi Nyi Aung, Department of Geology, University of Yangon, Myanmar	Paleogeographic Evidences of Small Brachiopods in the Thitsipin Formation, Linwe Area, Ye-ngan Township, Shan State (South)
P11.3	Dr Win Yu Khaing, Universities' Research Center, University of Yangon, Myanmar	Enhancing INS/GPS Navigation Performance by Neural Network
P11.4	Daw May Myat Noe, Department of Zoology, University of Mandalay, Myanmar	Plastic Bottle Waste in Mandalay: Identifying Recycling Knowledge and Practices among Residents
P11.5	Daw Khin Myat Thu, Assistant Lecturer, Department of Physics, East Yangon University	Evaluation of the Physical Properties and In Vitro Bioactivity of HAP and β-TCP

SUB-THEME 2

ID No.	Presenter	Title
P12.1	Daw Khin Khin Hlaing, Demonstrator, Department of Physics, University of Medicine(I)	Study on Development, Physical and Biological Properties of Biphasic HAP/beta TCP and HAP/alpha TCP
P12.2	U Chit Yan Toe, Teaching Assistant, Myanmar Maritime University, Myanmar	Current Status and Future Perspective of Hydraulic Engineering Education in Myanmar Maritime University

ID No.	Presenter	Title
P12.3	Dr Thet Naing Htwe , Lecturer, Botany Department, Yadanabon University, Myanmar	Effect of <i>Spirulina</i> and <i>Nostoc</i> on the Germination and Growth of Some Vegetables
P12.4	Daw Hnin Phyu Wai, Department of Zoology, University of Mandalay	Knowledge, Attitudes, and Practices Regarding Plastic Bag Usage in Mandalay
P12.5	Daw Su Mon Oo' Assistant Lecturer, Hlegu Education College, Myanmar	Exploratory Factor Analysis Study for the Scale Development of Media and Information Literacy

SUB-THEME 3

ID No.	Presenter	Title
P13.1	Dr Swe Swe Aye, Lecturer, Department of Botany, University of Yangon, Myanmar	Inhibition of Nitric Oxide Production in LPS- stimulated Raw 264.7 cells by leaf and stem methanolic Extract of <i>Cordia Dichotoma</i> G. Forst.
P13.2	Dr Nyein Hsu Zaw, Assistant Lecturer, Mawlamyine Education College, Myanmar	A Study of Perception of DTEd Student Teachers of Hlegu Education College on their Learning Process
P13.3	Dr Swe Zin Theik, .Assistant Lecturer, Department of Geography ,University of Yangon, Myanmar	Changes of Vegetables Production in Shwedaung Township
P13.4	Daw Wai Wai Than, Assistant Lecturer, Department of Educational Psychology, Sagaing University of Education, Myanmar	School Environment, Student Engagement and Educational Aspiration of High School Students: A Path Analysis Study
P13.5	Daw Khaing May Win, Demonstrator, Department of Physics, Sagaing University, Myanmar	Development of Solar Tracking System with Physical Data Acquisition

SUB-THEME 4

ID No.	Presenter	ID No.
P14.1	Daw Saw Nan Nwe, Lecturer, Department of Economics, Yadanabon University, Myanmar	The impact of flooding on socio-economic condition of vulnerable populations in Mandalay Region
P14.2	Daw Nyein Ma Ma Khin, Associate Professor, Educational Theory Department, Sagaing University of Education, Myanmar	Relationship between Teachers' Professionalism and Teacher Performance
P14.3	Dr Khin Myat Myat Mon, Lecturer, Department of Geography, University of Yangon, Myanmar	Geographic Assessment on Economic Development of Phayargyi Myothit, Bago Region
P14.4	Dr Khin Pa Pa Aung, Associate Professor, Educational Theory Department, Sagaing University of Education, Myanmar	A study of Some Prominent Myanmar Handicraft Embroidery of Buddhist Culture

Poster Session 2
13:00-14:00, Tuesday, 4th December
Conference Room(Pinya Hall)

SUB-THEME 1

ID No.	Presenter	Title
P21.1	Dr Nwe Nwe Hninn, Associate Professor, Botany Department, Yadanabon University, Myanmar	Anatomical characters of selected bamboo species in Myanmar
P21.2	Daw Hanny Tun, Instructor, Department of Naval Architecture and Ocean Engineering, Myanmar Maritime University, Myanmar	The Study of Multi-objective Optimization of Inland Container Barge
P21.3	Dr Htay Htya Khaing, Lecturer, Department of Chemistry, University of Yangon, Myanmar	Comparative Study on Pesticidal Activity of Rhizomes of <i>Alpinia Galanga</i> L. (Pa- Da- Kaw) and Rhizomes of <i>Curcuma Amada</i> (Roxb.) (Tha- Yet- Kin)
P21.4	Daw Su Poe Phyu, Assistant Lecturer, Hlegu Education College, Myanmar	Brain Dominance and Learning Styles of Student Teachers from Hlegu Education College

SUB-THEME 2

ID No.	Presenter	Title
P22.1	Dr Htwe Htwe Kyaw, Department of Oriental Studies, Yadanabon University, Myanmar	How and Why Initiation Ceremonies are Held In the Southern Shan State
P22.2	U Zaw Aung Min, Senior Teacher, Basic Education High School, Larkpanpya, Pauktaw Township, Rakhine, Myanmar	The Influence of Barriers on Students' Mathematics Learning in Geometry at the Middle School Level

ID No.	Presenter	Title
P22.3	Dr Moh Moh Thu, Assistant Lecturer, Yangon University of Education, Myanmar	A Study of The Efficacy of Project-based Learning Approach on Science Education: Science Achievement
P22.4	Daw Thwe Hnin Zin, Assistant Lecturer, Sagaing University of Education, Myanmar	The Effectiveness of Project-Based Learning in Teaching Physics at the High School Level
P22.5	Daw Yin Nwe Aung , Assistant Lecturer, Mawlamyine Education College, Myanmar	Sources of Stress and Job Satisfaction of Teacher Educators Across Teacher Education Institutions in Myanmar

SUB-THEME 3

ID No.	Presenter	Title
P23.1	Daw Naw Naw Oo, Assistant Lecturer, Department of Zoology, Mandalay University of Distance Education, Myanmar,	Species Composition and Relative Abundance of Spiders (Arachnida:Aranaeae) in Eastern Thein Minkha Reserved Forest, Myaing Township, Magway Region, Myanmar
P23.2	Dr Kyi Thar Khaing, Lecturer, Department of Zoology, University of Yangon, Myanmar	Current Population Status, Distribution, and Conservation of Tortoise Species in Tanintharyi Region
P23.3	Dr Nu Nu Yee, Lecturer, Department of Botany, Yadanabon University, Myanmar	Some Members of Algae found in Taung-tha-man Lake, Mandalay Region
P23.4	Mie Mie Kyaw, Lecturer, Department of Zoology, University of Mandalay, Myanmar	Conservational approaches towards the natural resources regarding SDGs at the confluence of Ayeyarwaddy and Chindwin River (Myanmar)
P23.5	Dr Paing Soe, Lecturer and Head, Dr., Department of Geology, Yenangyaung Degree College, Myanmar	Sequence Stratigraphy of the Coal Mine Area Exposed in the Western Part of Minbu Basin

ID No.	Presenter	Title
P23.6	Dr Hnin Khaing Aye, Lecturer, Department of Geography, University of Magway, Myanmar	Spatial Analysis of Ground Water Quality: A case of Natmawk Township, Magway Region
P23.7	Dr Zin Min Tun, Physics department, West Yangon University, Myanmar	Physicochemical Characteristics of Coconut Shells Biomass with Activated Carbons (ACS) as Renewable Energy

SUB-THEME 4

ID No.	Presenter	Title
P24.1	Dr Khin Mi Mi Zaw, Lecturer, Department of Zoology, University of Yangon, Myanmar	Occurrence of Some Insect Pests and Natural Enemy species on Black gram (<i>Vigna mungo</i>) in Oakkan Village, Gyobingauk Township, Bago Region
P24.2	Daw Zin War Nwe, Assistant Lecturer, Department of Zoology, University of Mandalay	Monthly Occurrence and Species Composition of Fish Fauna in Ayeyawady River Segment between (Yeik-tha-kyun Village and Innwa Bridge), Sagaing Region, Myanmar
P24.3	Dr Mu Mu Than, Associate Professor, Department of Geography, Dagon University, Myanmar	Socio-Spatial Patterns of Squatting in Dagon Myothit (Seikkan) Township, Yangon City
P24.4	Dr Sabai Thein, Assistant Lecturer, Department of Botany, Taunggoke Degree College, Myanmar	Comparative Analysis of the Phosphate and Potassium Solubilizing Bacteria: <i>Bacillus</i> sp. and <i>Lysinibacillus</i> sp. by 16S rRNA, gyrB genes and whole genome sequences
P24.5	Daw Lai Lai Win, Demonstrator, Department of Physics, Bago University, Myanmar	Effect of Samarium Substitution on Structural, Morphological and Electrical Properties of Nickel Ferrite