



2021

為永續世界而相互學習
國際交流線上工作坊

LET'S LEARN FROM EACH OTHER FOR
A SUSTAINABLE WORLD

INTERNATIONAL ONLINE WORKSHOP

全球環境教育夥伴亞太中心

9/3 - 9/4

Global Environmental Education Partnership Asia Pacific Center
(GEEP APRC)

2021

Let's Learn from Each Other for a Sustainable World

Conference Manual

Friday, September 3 and Saturday, September 4, 2021

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About the Event

The Environmental Protection Administration of Taiwan, the United States Environmental Protection Agency (EPA), and the North American Association for Environmental Education (NAAEE) collectively initiated the Global Environmental Education Partnership (GEEP) in 2014. The GEEP aims to promote regional and global environmental education projects with a vision to create a more equitable and sustainable future for all.

To further cultivate the regional connection, the GEEP established the Asia-Pacific Regional Center (APRC) in Taiwan in 2019, for which the Chinese Society for Environmental Education serves as its secretariat. The APRC is under GEEP and is responsible for cooperation and knowledge exchange with governments, industry, academia, and non-governmental organizations in the Asia-Pacific region with the goal to promote environmental education in the region. The APRC will also implement personnel development, integrate educational resources, and develop action plans to address environmental challenges in the Asia-Pacific region and beyond as we form a transnational cooperation network for sustainable development.

The APRC will organize its first international online workshop in September 2021, under the theme “Let's Learn from Each Other for a Sustainable World.” The event aims to (1) Facilitate cooperation of environmental education in the Asia-Pacific region, and (2) Amplify the impact and action of the United Nation's Sustainable Development Goals through environmental education. Experts from the Asia-Pacific region are invited to share their thoughts with panelists from Taiwan. We welcome environmental experts and professionals in the Asia-Pacific region to join the event.

- ♦ Organizer: Environmental Protection Administration of Taiwan
- ♦ Co-organizers: APRC, Chinese Society for Environmental Education, and Environmental Ethics Foundation of Taiwan
- ♦ Dates: Friday, September 3 and Saturday, September 4, 2021
- ♦ Purpose of the Event
 - I. Promote international environmental education (especially the Asia-Pacific region) exchanges and cooperation.
 - II. Demonstrate the value of promoting the value and influence of the United Nation's Sustainable Development Goals (UNSDG).
- ♦ Event Theme/ [Let's Learn from Each Other for the Sustainable World]
- ♦ Event Format: The core participants are APRC advisors, along with invited speakers from Taiwan. Case studies and discussions on practical experiences will be included. The language of the workshop is English. The event will be held in a combination of in-person and online participation.

Agenda

Friday, September 3, 2021	
08:30-09:00	Check-in
09:00-09:25	<p>Opening Ceremony</p> <p>Introduction of distinguished guests and opening remarks</p> <ul style="list-style-type: none"> ● Mr. Liu, Tsung-Yung, Director General of the Department of Comprehensive Planning, Environmental Protection Administration of Taiwan ● Ms. Judy Braus, Executive Director at NAAEE ● Prof. Chang, Tzu-Chau, Graduate Institute of Environmental Education, National Taiwan Normal University (Director of the GEEP APRC Project)
09:25-09:40	<p>Opening Video Clip</p> <p>Video on environmental education in Taiwan: <i>Environmental Education is Everywhere. Let's Make "Being Green" Part of Our Daily Lives</i></p>
09:40-10:10	<p>Keynote Speech</p> <p>Moderator: Prof. Chang, Tzu-Chau</p> <p><i>Taiwan's Environmental Education Act: Review and Prospects</i></p> <p>Prof. Chiau, Wen-Yan (Honorary Professor, Institute of Marine Affairs and Resource Management, National Taiwan Ocean University, Taiwan)</p>
10:10-10:20	Break
10:20-12:00	<p>Topic A: Regulations and Policy Communications</p> <p>Moderator: Prof. Wang, Hung-Jyuhn (Dean, College of Humanities and Social Sciences, National Dong Hwa University, Taiwan)</p> <p><i>A-1. Experiences on the Promotion of Environmental Education Law</i></p> <p>Ms. Elenida del Rosario Basug (Director, Environmental Education and Information Division, International Agreements on Environment and Natural Resources-DENR, the Philippines)</p> <p><i>A-2. Case Study on the Public Communication of Environmental Policies in Viet Nam</i></p> <p>Mr. Nguyễn Việt Dũng (Director General, Center for Natural Resources and Environmental Communication, Ministry of Natural Resources and Environment of Vietnam)</p> <p>Ms. Nguyen Thi Ngoc Mai (Head of International Collaboration, Center for Natural Resources and Environment Communication, Ministry of Natural Resources and Environment of Vietnam)</p> <p><i>A-3. Case Study on the Communication of Environmental Policies in Japan</i></p> <p>Dr. Kumi Tashiro (Deputy Director, Office of Environmental Education, Ministry of the Environment, Japan)</p>
12:00-13:00	Lunch break

13:00-15:00	<p>Topic B: Community and Environmental Education</p> <p>Moderator: Prof. Fan, Kuo-Shu (Professor Emeritus, National Kaohsiung University of Science and Technology, Taiwan)</p> <p><i>B-1. Case Study on Environmental Education in Thailand Communities</i></p> <p>Prof. Fuangarun Preededilok (Faculty of Education, Chulalongkorn University, Thailand)</p> <p><i>B-2. An Overview of Community-Based Environmental Education Program Launched by Environmental Protection Administration (EPA) in Taiwan</i></p> <p>Prof. Peng, Yen-Shun (Department of Environmental Resources Management, Chia Nan University of Pharmacy and Science, Taiwan)</p> <p><i>B-3. Case Study on Environmental Education in Li-De Community, Pingtung County</i></p> <p>Mr. Pan, Wu-Jhang (Chief Director, Li-De Community of Manzhou Township, Pingtung County, Taiwan)</p> <p><i>B-4. Create a Sustainable Community. The Journey of the YongAn Community.</i></p> <p>Mr. Liao, Chung-Hsun (General Manager, Yung-An Community of Luye Township, Taitung County, Taiwan)</p>
15:00-18:00	<p>Immersive Experience (In-person outdoor session)</p> <p>Foraging in the Forest: Immersive Experience in Toucheng Farm</p> <p>By illustrating storytelling, the Foraging in the Forest session offers an opportunity for participants to understand how birds, honey bees, and mammals are interconnected through resources in the forests and the ecological crisis that they are facing. The event is rich in sensory experiences and infuses artistic and aesthetic aspects into the activities.</p>

Saturday, September 4, 2021	
09:30-10:00	Check-in
10:00-12:00	<p>Topic C: Teaching Materials for Promoting Environmental Education</p> <p>Moderator: Prof. Wang, Ya-Fen (Department of Environmental Engineering, Chung Yuan Christian University, Taiwan)</p> <p><i>C-1. Case study of Malaysia's Environmental Education Teaching Materials</i></p> <p>Mr. Thiaga Nadeson (Chief, Market Transformation Initiates and Education for Sustainable Development at WWF-Malaysia)</p> <p><i>C-2. Journey of Ecology Note in Bhutan: From Community Environmental Education to Nationwide Integration</i></p> <p>Ms. Ugyen Tshomo (National Environment Commission Secretariat, Government of the Kingdom of Bhutan)</p> <p><i>C-3. An Evergreen Practice for Sustainability in Taiwan Sustainable Campus Program</i></p> <p>Mr. Liao, Shuang-Ching (Senior Executive Officer, Department of Information and Technology Education, Ministry of Education, Taiwan)</p> <p>Prof. Li, Yen-Yi (Department of Interior Design and Graduate Institute of Architecture and Environmental Design, Shu Te University, Taiwan)</p> <p><i>C-4. Multifunction of Taipei Zoo's Environmental Education Modules</i></p> <p>Ms. Wu, Chien-Chu (Research Assistant, Education Section, Taipei Zoo, Taiwan) (Research Assistant, Education Section, Taipei Zoo, Taiwan)</p>
12:00-13:00	Lunch break
13:00-15:00	<p>Topic D: Practical Training for Environmental Education Personnel</p> <p>Moderator: Dr. Min-Hwang Liang (National Dong Hwa University College of Environmental Studies / Department of Natural Resources and Environmental Studies)</p> <p><i>D-1. Guide to Cultivating Environmental Education Professionals (70 minutes)</i></p> <p>Dr. Kumi Tashiro (Deputy Director, Office of Environmental Education, Ministry of the Environment, Japan)</p> <p>Mr. Tatsuhiro Kato (Japan Environmental Education Forum, Japan)</p> <p><i>D-2. Upgrade E.E. workers' abilities--Rock your world with Environmental education (20mins)</i></p> <p>Ms. Chiu, Yum-Hsuan (Director, Friendly Seed Co. Ltd, Taiwan)</p>
15:00-15:10	Break
15:10-15:40	<p>Panel Discussion</p> <p><i>Environmental education collaborative exchanges in the Asia-Pacific region</i></p> <p>Moderator: Prof. Yuan, Hsiao-Wei (School of Forestry and Resources Conservation, National Taiwan University, Taiwan)</p>
15:40-15:50	Closing

Opening Ceremony

Mr. Tsung-Yung Liu

Director General, Department of comprehensive planning, Environmental Protection Administration Taiwan



Mr. Liu got his Master's degree at Imperial College London, majoring in Environmental Engineering. He has served in the Taiwan EPA for 25 years. He has been involved in the program of International Environmental Partnership and Global Environmental Education Partnership since 2014, when he served as the Executive Secretary of Office of Sustainable Development with US EPA. He is now the Director General in the Department of Comprehensive Planning in Taiwan EPA, in charge of EE policy and environmental impact assessment.

Moderator

Prof. Tzu-Chau Chang

Graduate Institute of Environmental Education, National Taiwan Normal University (Director of the GEEP APRC Project)



Ph.D. of Science Education, Cornell University, Ithaca, N.Y., USA
Ministry of Science and Technology Ministry of Education

My research focuses on both the development and impact of the EEA (Environmental Education Act) in Taiwan and infusion of EE into national 1-12 grade curriculum framework. In addition to the implementing EEA and new curriculum framework into domestic settings, my research group has joined regional and international collaborative studies as well.

Keynote Speech. Taiwan's Environmental Education Act: Review and Prospects

Prof. Wen-Yan Chiau

Honorary Professor, Institute of Marine Affairs and Resource Management, National Taiwan Ocean University, Taiwan



Biography

- ♦ Legislator, Legislative Yuan;
- ♦ Deputy Minister, Environmental Protection Administration;
- ♦ Member, Council of National Land Development and Conservation, Presidential Office;
- ♦ Deputy CEO and Member, National Council for Sustainable Development, Executive Yuan;
- ♦ Dean, College of Ocean Law and Policy, National Taiwan Ocean University;
- ♦ Director and Professor, Institute of Marine Affairs and Resource Management, National Taiwan Ocean University.

Abstract

Taiwan has been promoting environmental education for nearly 30 years, and the Environmental Education Act has been in force for 10 years, and many practical and productive actions have been implemented with good performance. Accumulating 10 years of experience in the implementation of the Environmental Education Act, the central author (Taiwan's EPA) hope to continue to strengthen the following measures: (1) to deeply root in pre-school and school environmental education; (2) to enhance the capacity of environmental education facilities and venues and to promote green tourism; (3) to strengthen the partnership among enterprises, communities, communities and the general public; (4) to promote the green life movement for all; (5) to strengthen the links between environmental issues and cross-agency cooperation; (6) to flexible use of emerging media; and (7) to actively participate in global and Asia-Pacific organizations for further environmental education exchanges and cooperation.

Keywords: Environmental Education Act in Taiwan, Taiwan's EPA, National Environmental Education Award

A. Regulations and Policy Communications

Moderator

Prof. Hurng-Jyuhn Wang

Distinguished Professor, National Dong Hwa University, Taiwan

Vice Director of the GEEP APRC Project



- ♦ Distinguished Professor, National Dong Hwa University, Taiwan
- ♦ Dean, College of Humanities and Social Sciences, National Dong Hua University, Taiwan
- ♦ Chair, Ph. D. Program of Asia-Pacific Regional Studies, National Dong Hwa University, Taiwan

Dr. Hurng Jyuhn Wang is presently University Distinguished Professor of Department of Public Administration. He serves as the Dean of College of Humanities and Social Sciences, and Chair of Ph.D. Program of Asia-Pacific Regional Studies, NDHU . He also served as the Dean of General Affairs, Director of Graduate Institute of Public Administration, Director of Graduate Institute of Environmental Policy of NDHU.

Dr. Hurng Jyuhn Wang studied environmental economics and policy and earned a Ph.D. degree from the University of Michigan-Ann Arbor, United States. He has been several visiting professorships at Yale University (USA), Okayama University (Japan), Majeo University (Thailand), Fujian Agriculture and Forestry University (China), and Academia Sinica (Taiwan). He has extensively published on collective actions, environmental governance and history, policy innovation, and sustainable development.

A-1. Experiences in the Promotion of Environmental Education Law

Ms. Elenida del Rosario Basug

Director, Environmental Education and Information Division, International Agreements on Environment and Natural Resources-DENR, the Philippines



Biography

Ms. Elenida Basug is the OIC-Director of the Philippines' Department of Environment and Natural Resources (DENR) Climate Change Service since August 2016. In January 2019, she obtained a presidential appointment for Director III of the DENR. As OIC- Director of the Climate Change Service, she heads the Secretariat to the DENR Secretary as chairperson to the Cabinet Cluster on Climate Change Adaptation, Mitigation, and Disaster Risk Reduction. She also spearheads the DENR's knowledge management and capacity-building programs on climate change. She is also Assistant Head to Secretariat for the Philippines' Task Force Build Back Better.

Since March 2020, she has also been designated as Director of the DENR Gender and Development Office, in concurrent capacity as OIC-Director of the DENR Climate Change Service.

Ms. Basug has been in the government service for almost thirty-nine (39) years. She is a graduate of Master of Education, Major in Environmental Education at the University of the Philippines (UP) Diliman. She also completed the academic requirements of the Master of Science in Environmental Studies, major in Upland Resource Management, minor in Natural Resource Economics in UP Los Banos. She was chief of the DENR Environmental Management Bureau's Environmental Education and Information Division for close to 15 years until 2018. For 20 years, she headed the secretariat to the Philippine Association of Tertiary Level Educational Institutions in Environmental Protection and Management (PATLEPAM).

Abstract

Due to the unique geographical location of the Philippines, it is one of the most vulnerable countries to climate change. With rising temperatures, shifts in rainfall patterns, rising sea levels, and increasing frequency of extreme weather events, the degraded condition of ecosystems and biodiversity in the country will be further exacerbated (OML Center 2019). Following the latest release of the Sixth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) which provides compelling evidence that changes in our climate are accelerating and would lead to more impacts (IPCC 2021), climate change communication and education have become more urgent than ever,

especially for a vulnerable country like the Philippines. The United Nations Educational, Scientific and Cultural Organization (UNESCO) reiterated the importance of education in promoting climate action.

Provided with education about climate change, people will be “empowered with the knowledge skills, values, and attitudes needed to act as agents of change” (UNESCO n.d.). Recognizing the need and its importance, the Department of Environment and Natural Resources (DENR) is implementing various initiatives on climate change communication and education in the Philippines ranging from a radio program, strategic communications program, social and behavior change campaign strategy, and recognition awards among others to raise awareness and effect individual and community action to address climate change.

Keywords: Climate Action in the Philippines, DENR CCS, Climate Education in the Philippines

A-2. Case study on the Policy of Public Communication on Environment in Viet Nam

Mr. Nguyễn Việt Dũng

Nguyen Viet Dzung, Focal Point of AWGEE Viet Nam, Director General
Center for Natural Resources & Environment Communication, Viet Nam



Biography

Mr. Nguyen Viet Dzung is Director General of Center for Natural Resources and Environment Communication directly under the Ministry of Natural Resources and Environment of Viet Nam (MONRE). He graduated from the University of Science, Viet Nam National University on Oceanography, and obtained his Master's Degree in the same major. Mr. Dzung has more than 15 years of experience in environmental protection implementation, especially environmental education, training, and communication across Viet Nam. He is responsible for implementing environmental education and communication national wide.

Mr. Dzung represents Viet Nam as a team leader to participate in the international environmental education network e.g. ASEAN Working Group on Environmental Education, Global Environmental Education Partnership.

Mr. Dzung has been organizing a variety of national events on the environment, climate change and sustainable development, sea and ocean environment protection activities, national movements on plastic reduction especially marine debris, environmental education activities for the youth in Viet Nam, workshops, and training course on governmental management and sustainable development for the local authorities. He also has an intense interest in boosting environmental education worldwide.

Ms. Nguyen Thi Ngoc Mai

Head of International Collaboration Center for Natural Resources &
Environment Communication, Viet Nam



Biography

Ms. Nguyen Thi Ngoc Mai is Head of International Collaboration of the Center for Natural Resources and Environment Communication, the Center is the agency in charge of environmental communication in Vietnam under the Ministry of Natural Resources and Environment of Vietnam (MONRE). Ms. Mai holds a Master's degree in Environmental Management from Hanoi University of Science and Technology and participated in various training courses, workshops on

sustainable consumption and sustainable development. Ms. Mai has more than 10-year working experience on environmental projects in different craft villages and industrial zones across Vietnam, along with experiences in environmental communication and education. She has organized a variety of environmental education and communication events, training courses, and contests for students, children as well as adults, from the community to local authorities. She also produced a number of environmental communication materials for the public.

Abstract

The government of Viet Nam is facing huge challenges of environmental issues arising from population growth and economic development. Therefore, a lot of efforts of the Government on environmental education and communication have been being carried out since the 1980s and made great progress forward. In recent days, the Vietnamese Government has been issuing many legislative documents and implementing numerous projects, bringing great achievements in raising awareness of the people on protecting the environment and natural resources. To implement effective environmental education and communication, the Government assigned in the Environmental Protection Law 2020: MOET in prescribing the contents and programs of education and training on environmental protection and the development of human resources for environmental protection, MONRE is responsible for communicating, disseminating knowledge and propagating legislation on environmental protection; and Provincial-level People's Committees is in charge of environmental communication in its locals. Due to the efforts, the Government showed in the legislation documents and national strategies, environmental education, and communication in Viet Nam achieved a number of successes. In the formal section, environmental education has been integrated into the mainstream school curriculum at all levels. In the non-formal section, the MONRE organized numerous activities and events to promote environmental protection, climate change resilience, and natural resources protection. The Eco-school Award showed that schools had tremendous efforts and exciting activities in order to raise the awareness of students on environmental protection and climate change adaptation. From that, we can see the whole environmental management and educational system is working toward a sustainable future.

Keywords:

Environmental education, Environmental communication policies, eco-schools, public communication

A-3. Case Study on the Communication of Environmental Policies in Japan

Dr. Kumi Tashiro

Deputy Director, Office of Environmental Education, Ministry of the Environment, Japan



Biography

Dr. TASHIRO is a Deputy Director of the Office of Environmental Education at the Ministry of the Environment Japan (MOEJ). She is in charge of international networking and collaborations on EE/ESD/SDGs, including Global Environmental Education Partnership (GEEP), the Youth Forum under the Tripartite Environment Ministers Meeting (TEMM) among Japan, China, and S. Korea, Tripartite Environmental Education Network (TEEN). In the Asia-Pacific region, Kumi is working at ASEAN+3 Leadership program with ASEAN member states, as well as ProSPER.Net (Promotion of Sustainability in Postgraduate Education and Research). In Worldwide, RCE (Regional Centres of Expertise on ESD) with United Nations University. She is currently conducting a local SDGs leadership training program for young people in their early career stage, to get new mindsets for the circular and ecological economy which will contribute to realizing a carbon-neutral society. She is also working on EE/ESD collaborating with the Ministry of Education, education board, schools, local communities, and NPOs/NGOs. Kumi is specialized in participatory community design, Child & Youth-friendly city planning, and design-thinking education. She was working on research projects on school and community engagements and delivering lectures at several universities in Japan, the U.S., Mexico, and Hong Kong S.A.R., before she joined MOEJ.

Abstract

The primary Environmental Education promotion law in Japan was established in 2003, it called for initiatives to further enhance motivation on environmental conservation activities, raised awareness for environmental issues, and promote environmental education. The law was revised in 2011, it was defined Environmental Education as that aims at the development of sustainable society and deepens understanding of links of environment and society, economy and culture. Certification of "Place for Nature-Based Experiences" is added in 2018.

Based on the Environmental Education law and national action plan on Education for Sustainable Development (ESD), the National ESD resource center was established in 2016, by collaboration between the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and the Ministry of the Environment (MOEJ). Eight regional ESD resource centers are consecutively established in 2017.

These centers are taking the role of a communication core in their region with the cooperation of organizations called "ESD base" that are practicing ESD activities leading in the area and making high ripple effects, and they support ESD activities in the area.

In this presentation, experiences from National initiatives and international collaboration to promote EE/ESD in Japan will be shared and findings focus on 1) How EE/ESD could be designed by the education and Environment Ministries, 2) How collaboration with communities and NGO/NPO can enrich EE/ESD, and 3) How it could be effectively implemented through active learning approaches will be discussed.

Keywords: Environmental Education promotion law, ESD, ESD resource center, active learning

B、Community and Environmental Education

Moderator

Prof. Kuo-Shuh Fan

Professor Emeritus, National Kaohsiung University of Science and Technology, Taiwan



Dr Fan currently is adjunct chair professor in Department of Environmental, Health, and safety Engineering, National Kaohsiung First University of Science and Technology, Taiwan. His interests are mainly in the areas of waste management, environmental assessment, and environmental education. He also served as VP of the university in the period of 2010-2015.

After graduating from Ohio State Univ with PhD and a year as post doc in UW-Madison, he accepted the invitation from his alma mater, National Chung Hsing Univ. in 1984. During 1989-1995, He worked in Taiwan EPA as Director of Office of Science and Technology Advisors responsible for R&D and international affairs. He successfully facilitated the signature of environmental cooperation agreement between Taiwan EPA and USEPA. Afterward, he was assigned as first CEO of the Abandoned Vehicle Recycling Foundation funded by Taiwan EPA. An overall master plan was architected and a modern car shedding facility was constructed during his service in 1995-1998.

Currently, Dr Fan also serves as president of the Taiwan Circular Economy and Innovation Transformation Association (CEITA), a non-profit organization, engages in knowledge platform building and consultation on circularity and innovation.

B-1. Case Study on Environmental Education in Thailand Communities

Prof. Fuangarun Preededilok

Faculty of Education, Chulalongkorn University, Thailand



Biography

Dr. Fuangarun PREEDEDILOK is an Assistant Professor in the Division of Development Education, Faculty of Education, Chulalongkorn University, Thailand. And now she is the chairperson of the division. She has taught Education for Sustainable Development (ESD) at Chulalongkorn and other universities for more than ten years. She was an organizer of the ESD Campus Asia Project, a student exchange program between Hokkaido University, Japan, and Chulalongkorn University. She has also done the research and published articles related to ESD. Now she is part of the team that runs programs to cultivate ESD concepts for all students at Chulalongkorn. For non-government agencies, she is the vice president of the Institute of Buddhist Management for Happiness and Peace Foundation and the secretary of the Thai Association of Women University.

Abstract

Since 1978, Environmental Education (EE) has been included in Thailand's basic curriculum both formal and non-formal education. In 1989, various environmental activities and projects were organized by the Ministry of Education with the support of the USA; the Management and Administration of Natural Resource and Environment for Sustainable Development (MANRES) program, to raise environmental awareness. In 1992, the Department of Environmental Quality Promotion, Ministry of Science Technology and Environment developed the national master and action plans for EE, purposely to change people roles and behaviors to become Environmental Citizen. The term "Thailand Communities" is referred to in this article only to reflect EE informal education and community-related education while many sectors in Thailand are also concerned of EE. In the Basic Education Core Curriculum (2008 and revised 2017), environmental issues are compiled in both Science subject area and Social Studies, Religion, and Cultural subject area. Many projects have been initiated to encouraged EE such as Eco-school, by the Ministry of Natural Resources and Environment, and EESD School, by the Ministry of Education. In higher education, EE appears in compulsory courses, elective courses, and activities, depending on each institution. However, as the global trend since 2002, when UNESCO held the World Summit on Sustainable Development, it has agreed to integrate sustainable development into all educational levels. Therefore, education becomes a tool to balance the economy, society, and environment. It can be said that "Education for Sustainable Development is the next evolution or a new era of environmental education."

Keywords: Environmental Education, Sustainable Development, Thailand Communities

B-2. An Overview of Community-Based Environmental Education Program Launched by Environmental Protection Administration (EPA) in Taiwan

Mr. Yen-Shun Peng

Assistant professor, Chia Nan University of Pharmacy & Science/
Department of Environmental Resources Management



Biography

My name is Yen-Shun, Peng. Currently, I am an Assistant Professor in the Department of Environmental Resources Management at Chia Nan University of Pharmacy & Science.

Abstract

In recent years, community development has become diversified. Community is not only a platform for citizen participation, but also a media for important policy promotion. Undoubtedly, the environmental education is the foundation for community development. Therefore, the Environmental Protection Administration of Executive Yuan has implemented a series of community-based environmental education (CBEE) program since 1997. In order to promote the community environmental education, the main characteristics of this program are focusing on both bottom-up mechanisms and local community demands. An overview of EPA CBEE program was briefly introduced. The development, structure, type of community, procedure and execution issue of CBEE program were depicted. Additionally, a case study was also presented.

B3. Case Study on Environmental Education in Li-De Community, Pingtung County

Mr. Wu-Zhang Pan

Chief Director, Li-De Community of Manzhou Township, Pingtung County, Taiwan



Biography

Currently serving as the chairman, natural ecology commentator and environmental educator of the Reid Community Development Association in Manzhou Township, Pingtung County.

Abstract

The Li-De community faces the Pacific Ocean in the east, Gangkou Village in the south, Ganggang Creek and Lanren Creek in the west, faces Manzhou Village and Xianglin Village, and Changle Village to the north. The community mainly focuses on ecological conservation, environmental protection work, natural tourism development and other activities, and is committed to sports with Lanren Creek, and provides tourism services for tourists. "

B4. Create a Sustainable Community. The Journey of the YongAn Community.

Mr. Chung-Hsun Liao

Director General, YongAn Community Taitung, Taiwan



Biography

I am LIAO CHUNG HSUN, the director-general of Yongan Community, Luye Township, Taitung County. The old name Luliao, Yongan Community, Luye Township, covers an area of about 15.1 square kilometers and has a population of about 1,600 people. The whole village is located on hilly plateaus and farming is not easy. In the early years, it was one of the poorest villages in Luye Township. We spent the last 20 years. , Launched a series of Wing On flipping work, constantly challenged oneself and dared to innovate, and transformed into a classic rural community in the country. Not only did the community industry upgrade, the lives of residents improved, and it became the favorite of new immigrants. Just like the Wing On sky, hot air balloons and paragliders are common to soar freely, carrying everyone's dreams and flying high. Let Yong'an become a national model community, it turns out that "I want to fly is not a dream".

Abstract

This speech is mainly to share the history of YongAn Community's promotion of environmental education and the development of a sustainable community. The speech is divided into three paragraphs.

- ♦ Introduction to YongAn Community
- ♦ The story of YongAn Community
- ♦ YongAn approach to promoting a sustainable community

C. Teaching Materials for Promoting Environmental Education

Moderator

Prof. Ya-Fen Wang

**Department of Environmental Engineering, Chung Yuan
Christian University, Taiwan**



Prof. Ya-Fen Wang is the Professor of Environmental Engineering at Chung Yuan Christian University (CYCU) and as the President of Taiwan Association of Aerosol Research from 2020. Prof. Wang's research focused on air pollution control and hazardous waste treatment. She is also devoted to environmental education on foreign students to implement practical environmental diplomacy, which promotes Taiwan's experience internationally. She expected these students to be familiar with Taiwan's policy and technologies, to think about how to improve the environmental quality in their countries. Prof. Wang believes the importance of education and she thinks the charming of education is: if you give a student a seed, he/she might return you a bunch of beautiful flowers or a strong tree. To be a teacher is not only a career but her vocation.

C-1. Case Study of Malaysia's Environmental Education Teaching Materials

Mr. Thiaga Nadeson

Chief, Market Transformation Initiates and Education for Sustainable Development at WWF-Malaysia



Biography

Thiaga Nadeson is Head of Education and Markets at WWF-Malaysia, where one of his main focuses is to support Environmental Education or Education for Sustainable Development in Malaysia. He is an advisory member of the Asia Pacific Regional Centre and Global Environmental Education Practitioner. He was a Board member of the Foundation for Environmental Education (FEE) based in Denmark. During this tenure, he was the Board's Eco-Schools programme country advisor to Singapore and Mongolia. He was with the Ministry of Education, Malaysia for 5 years before joining WWF-Malaysia. In his 20 years of working experiences here, he has introduced many significant programs to Malaysia such as Green Schools, Sustainable Teacher Education Institute, Eco-Schools, and FEE Eco-Campus. As an expert in Environmental Education, he represented Malaysia Government through the Ministry of Education Malaysia in the UNESCO World Conference on Education for Sustainable Education. He also leads teams that engage with Malaysian corporates, regulators, stock exchange, banks, and institutional investors in a range of advocacy, capacity building, and research initiatives on corporate sustainability and sustainable finance, including Islamic banking. Within these years as WWF-Malaysia staff, he was exposed to various conservation issues and projects including the most trending issues – climate change, plastic, and species.

Abstract

Environmental Education or Education for Sustainable Development (ESD) are key social engineering tools to improve awareness, knowledge, skills, attitude, and participation (action). Globally, countries recognized its importance with the introduction of UNSDGs and more recently the ESD 2030. Students play an important role to improve the health of the world, social well-being and continue to support sustainable businesses. Teaching materials are key for this transformation. In Malaysia, digital platform was inevitably mainstreamed since the start of the COVID-19 pandemic. WWF-Malaysia has introduced Living Planet Centre (LPC) in collaboration with University Malaya, one of Malaysia's oldest and leading universities. LPC is an immersive online experience and education platform with its wide range of content (i.e. biodiversity, landscapes, ecosystem, climate, sustainable development) developed by expert instructors that focus on three educational models; creative education, pedagogical and real-world application. To support the internationally recognized Eco-Schools and Eco-Campus Programme (ESP &ECP), we have partnered with Zilearn (a content

creation studio with powerful tools to create dynamic, online courses) to improve the comprehension of ESP&ECP structure, initiatives, and reward system. Through this platform number of videos and online courses are available for the students to learn and apply at their school compound and beyond at scale. WWF-Malaysia finds the digitalized and effective teaching materials are crucial in shaping the next generation in support of the formal education system managed by the Ministry of Education, Malaysia.

Keywords: WWF-Malaysia ESD, Online Teaching Materials, Environmental Education

C-2. Journey of Ecology Note in Bhutan: From Community Environmental Education to Nationwide Integration

Ms. Ugyen Tshomo

National Environment Commission Secretariat, Government of the Kingdom of Bhutan



Biography

Ms. Ugyen Tshomo works at the National Environment Commission as an Environment Officer for the waste management flagship program. She has worked on projects like Ecology Note of Bhutan and Waste and Climate Change (WCC) with UNEP-IETC, IGES, Royal Education Council, WWF, and German Federal Ministry for the Environment, Nature Conservation, Building, and Nuclear Safety.

She worked as a core team with UNDP and BI Australia on a social experiment to Improve Household Waste Segregation in Thimphu. She also closely worked with the Ministry of Health on biomedical waste management during the COVID-19 pandemic and post COVID-19. In 2019, Ms. Ugyen Tshomo was awarded a Green Ticket for her demonstrated commitment to addressing the climate crisis and advancing solutions by the United Nations to attend the first Youth Climate Summit held at UN headquarters, New York, USA. Previously, Ms. Ugyen Tshomo has worked at the Gross National Happiness Commission Secretariat for the development of the 12th Five Year Plan (2018-2021) of the country and also worked at Royal Thimphu College under Academic Affairs Department. Ms. Ugyen Tshomo holds her Bachelor's degree in Environmental Sciences with a minor in Development Studies from the Asian University for Women, Bangladesh in 2016. She is currently pursuing a Master's in Marine Plastics Abatement at the Asian Institute of Technology.

Abstract

Bhutan is a carbon-negative country and an epitome of environmental conservation with more than 60 percent forest coverage as per the mandates of the Constitution of the Kingdom of Bhutan. However, waste management has become a concerning issue in the country with the increasing population, rapid urbanization, economic development, and change in consumption patterns due to global influence. As per the National Waste Inventory Survey-2019, Bhutan generates a total solid waste of 172.16 metric tons in a day and the per capita waste generation accounts for 0.23 kilograms a day. The current waste management system in the country has identified a lack of capacity, waste collection services, facilities, proper disposal, and resources. To address the solid waste management issues, the Waste Management Flagship Program under the 12th Five-Year Plan aims to achieve Zero Waste Bhutan by 2030. Therefore, behavioral change at the individual level is imperative to bring

collective responsibilities in every waste management journey map. In 2020, the Ecology Note for Bhutan was successfully integrated into the science curriculum of class 4-8 to bring behavioral change, and to create environmental education awareness to children at early stages of primary to secondary schools through Active Learning Approach with emphasis on 3R practices for sustainable waste management in Bhutan. The Ecology Note for Bhutan was developed from the Youth Action for 4Rs schools in Thimphu community to nationwide curriculum integration with a joint effort of the National Environment Commission, IGES, UNEP-IETC, and the Royal Education Council under the support of the Government of Japan and Bhutan.

Keywords:

Waste Management, Youth Action for 4Rs, Ecology Note for Bhutan, Behavioral Change, Active Learning Approach, 3Rs, Curriculum Integration, Science curriculum, Environmental Education, Community Education, Circular Economy, Zero Waste Bhutan

C3. An Evergreen Practice for Sustainability in Taiwan Sustainable Campus Program

Mr. Shuang-Ching Liao

Senior Specialist, Department of Information and Technology Education,
Ministry of Education



Biography

As a special committee member of the Information Technology Education Department of the Ministry of Education, I am mainly responsible for the promotion of environmental education, sustainable education and disaster prevention education of the Ministry of Education.

Prof. Yen-Yi Li

Graduate School of Architecture, ShuTe University / Associate Professor



Biography

Joseph Yen-Yi Li is a Ph.D. of the Environmental Control Group in Graduate School of Architecture, Cheng Kung University in Taiwan. He is currently the Associate Professor at ShuTe University, and also Adjunct Associate Professor at Chinese Housing Innovation Research Center in Chinese University of Hong Kong. Since 2000, Joseph has been assisting the Architecture and Building Research Institute of the Ministry of the Interior on researches related to environmental control and ecological planning. From the year of 2002, Joseph promoted and helped launch the Sustainable Campus Promotion Program in Ministry of Education for 18 years.

Joseph also Specialized in ecological urban/rural planning and micro-climate control technologies. Since 2004, working together with the EU Eco-city team and Joachim Eble eco- architect with several GAIA Architect Group members, Joseph involved in Eco-Planning integrated with micro-climate control strategies, such as Tainan high-speed railway district for Ecocity and Smart Science Park, etc. All participating planning and technology strategies integrate environmental micro-climate analysis and apply relevant simulation and calculation foundations to reward urban and rural development planning with landscape-water-green and micro-climate integration systems.

Abstract

Sustainability has been the core value and guiding principle for development since the twenty-first century globally. To increase the understanding of sustainability of the society, especially the connection between software implementation and hardware construction, is the key issue for the government. After the occurrence of the 921 Earthquake in 1999, the damages of school buildings provoked the rethinking of sustainable development in campuses. Therefore, the Ministry of Education in Taiwan initiated a national project since 2002 to connect theoretical and practical education of sustainability. The Taiwan Sustainable Campus Program (TSCP) aimed to change the society by integrating practical knowhow into environmental education and to promote the sustainable renovation in school campuses to transform the public sense of sustainability from education.

The renovation processes were conducted in several perspectives such as Energy management, Resource management, Water system, Green and bio-system, Healthy environment, amenity, green building, and environmental education practice. Therefore, a steering group should be organized to help the promotion and make sure things are on the right course, which means multiple fields of expertise should cooperate together following the same goal. The TSCP has been running for 20 years since its founding. Till now, there are over 1000 schools which joined this program, and more and more potential participants still awaits.

C4. Case Study of Environmental Education Teaching Modules at Taipei Zoo

Ms. Chien-Chu Wu

Research Assistant, Education Section, Taipei Zoo, Taiwan



Biography

Chien-Chu WU is an Executive Secretary of Environmental Education Working Group at Taipei Zoo, and as an EE Program Manager and Workshop Instructor in Zoo's Education Division, a Curator of Special Exhibition, Education Center. Her major is communication and social science. She has many years' experience in field of Zoo Cultural and Creative design and used to be a Chief Editor for Zoo Magazines, Supervisor of Zoo Volunteers and Director, board of Society for Taiwan Amphibian Conservation, NGO. She works for Zoo Conservation Education more than 20 years. Now she is charge of EE Training and Projects for enhance zoo educators' capacity.

The history of Taipei Zoo could be traced back over 100 years, a zoological garden in Yuanshan since 1914. For the increasing social awareness about natural conservation and environmental education, Taipei Zoo was moved to Wenshan district, in the southern part of Taipei, Taiwan, as a modern zoo in 1986. Taipei Zoo is operated by the Taipei City Government with four main functions: conservation, education, research and recreation. More than 3 million visitors attend the Zoo on an annual basis; it commits to keep serving as a leader in wildlife conservation and environmental education.

Abstract

Taipei Zoo was certified as an environmental education facility in 2012. Biodiversity is the core theme of zoo's conservation and environmental education programs. From appreciating and loving wildlife, learning the basic knowledge about species, invisible value and services of ecosystem, facing the crisis of biodiversity loss, HIPPO, and reviewing our daily actives impact, the zoo's educational modules aim to arise awareness of the inextricable relationship between human and the biodiversity, connect people with nature and promote environment friendly actions for nature conservation. With lots of materials that can be obtained in the zoo, such as animal specimens, ingredients of food, excretions, images, survey records, keepers' talk etc., make zoo's education programs unique and special. Multi-purpose for different target audients segment and a rapidly changing world, zoo's onsite based experience programs are looking forward for more possible innovation creatives.

Keywords: zoo, biodiversity, conservation education, environmental education, teaching materials design

D. Practical Training for Environmental Education Personnel

Moderator

Dr. Min-Hwang Liang

National Dong Hwa University | College of Environmental Studies /
Department of Natural Resources and Environmental Studies



Biography

- ♦ Education: PhD, College of Natural Resources, University of Michigan, USA
- ♦ Expertise: Natural Resource Conservation, Conflict Management, Policy and Plan Evaluation, Sustainable Development Education

Born in Tainan City in 1952. Studying in the Department of Biology at National Taiwan Normal University, interested in the collection and classification of animals and plants. From the Master of Zoology at National Taiwan University to the fields of ecology and aquatic resource investigation, he devoted himself to the conservation administration of national parks and the rehabilitation of wild animals. Later, he was admitted to Taiwan's first public-funded scholarship for nature conservation and went to the University of Michigan's School of Natural Resources to study for a PhD in natural resources, majoring in natural resource administration and assessment, and minoring in environmental education and environmental advocacy.

After returning to Taiwan in 1991, he has been taught by the Taiwan Normal University. Environmental Education Center, Taipei Zoo Education, and the Department of Landscape Architecture. In 1991, he joined the Environmental Education Society of the Republic of China, serving as the seventh chairman of the board, the ninth secretary-general, and multiple board supervisors. He has been associated with domestic environmental education for 30 years. In 1999, he entered the Institute of Environmental Policy, School of Management, Donghua University, and the Department of Natural Resources and Environmental Studies (Sustainable Development Education Research Office) of the School of Environment. The main focus is on the evaluation of Taiwan's environmental education policies and plans.

D1. Guide to Cultivating Environmental Education Professionals

Dr. Kumi Tashiro, Deputy Director, Ministry of Environment, Japan

Mr. Tatsuhiro Kato, Japan Environmental Education Forum, Japan

Abstract

Introduction: What is learning to you?

If someone asked you what was memorable in your learning experience, what would come to your mind?

Many of you may recall times when you reinterpreted or discovered things, such as comprehending the meaning of a certain principle by yourself when engaged in science experiments or understanding local issues as if they were your own when interacting with local people.

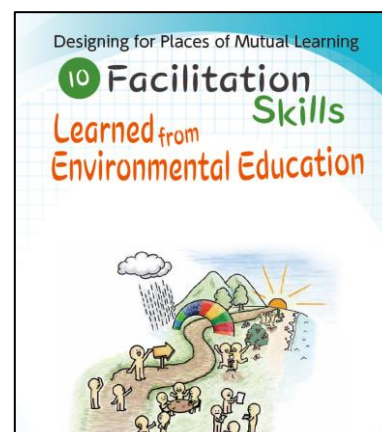
Have you ever had the experience of immediately forgetting what you learned after reading a textbook, watching a video, or performing an experiment? On the other hand, even with time, don't you tend to remember what you have learned by incorporating participatory elements, such as role-playing and discussions, practice, and peer-to-peer teaching?

This guidebook is intended for elementary and junior high school teachers who want to design or provide support for places of mutual learning where children can learn from each other. We will introduce skills in designing places of mutual learning for children which are gained from experiences in environmental education.

Let's go on a journey to create "places of mutual learning."

Download link

- ♦ Traditional Chinese <https://www.env.go.jp/en/headline/2509.html>
- ♦ English <http://www.env.go.jp/policy/education/english02.pdf>
- ♦ Simplified Chinese <http://www.env.go.jp/policy/education/chinese02.pdf>
- ♦ Korean <http://www.env.go.jp/policy/education/korean02.pdf>
- ♦ Japanese <http://www.env.go.jp/policy/education/japanese02.pdf>



D2. Upgrade E.E. workers' abilities--Rock your world with Environmental education

Ms. Yun-Hsuan Chiu

Director of Environmental Learning Center, Friendly Seed Co. Ltd,
Taiwan



Biography

Yun-Hsuan Chiu, work as an environmental educator for 16 years. The word "work" means as an volunteer of NGOs, as an environmental interpreter in communities, as a speaker for different environmental issues, as a teacher in a wildlife rescue center and in National nature park nature center. And also work for a social enterprise named Friendly seed.

The corporation was founded in August 2010 by a group of professionals who are passionate to plant friendly seeds in the soil of environmental education. As a social enterprise, our primary goal is to promote the ideas and tools of sustainability to society, and make changes of people's value about environment.

In these years, we worked with different government departments, such as National Park, Construction Office, Forest Bureau, Bureau of Culture affairs, etc., to manage nature centers or held E.E. activities. We also work with different enterprises, help them to implement the concept of CSR. "Take environmental educators as a life's work, not a job." is my personal ideal. I am so grateful for your company.

Abstract

As an environmental educator, we spend plenty of time to educate others, such as students, public, tourists, friends, our families, etc., however, do we leave any time and spaces to educate ourselves? What do we need? Where can we get all those training programs? Do we have self-awareness about our needs and willing to accept those courses?

Friendly Seed, a social enterprise, has 30 employees work in different nature center or executing various projects. Educators are responsible for educating students and the public, designing and handling outdoor programs and various types of activities ; project managers, managing the whole project progress, planning activities, and communicating with clients; and communicating with clients; and senior supervisor must manage different projects and personnel, also need to pay attention to quality management.

We build internal learning groups and participate in external learning courses, allow the entire team to continue to learn and grow.

Panel Discussion. Environmental education collaborative exchanges in the Asia-Pacific region

Moderator

Prof. Hsiao-Wei Yuan

School of Forestry and Resources Conservation, National Taiwan University,
Taiwan



Professor Hsiao-Wei Yuan, Vice President for International Affairs, joined the faculty at NTU since she obtained her Ph.D. degree in Natural Resources from Cornell University, USA. In nearly 30 years of her illustrious career as a champion of biodiversity conservation and environmental education, Professor Yuan has received numerous awards and recognitions for her research, teaching, and services. Throughout her career as an advocate for international higher education, she also served as Director for International Affairs of the National Applied Research Laboratories and CEO of the Foundation for International Cooperation for Higher Education of Taiwan.

Professor Yuan has not only been the principal investigator for many projects commissioned by the Ministry of Science and Technology and Forestry Bureau, but also received the recognition of outstanding contributions in forestry and nature preservation by the Council of Agriculture. Dedicated to developing the future talents for Taiwan's forestry research and management, she also received the Distinguished All-English Teaching Award, Outstanding Teaching Award, Distinguished Teacher Award, and Distinguished University Service Award from NTU on numerous occasions.

Invited person

Prof. Wei-Ta Fang

Distinguished Professor and Director, Graduate Institute of Environmental Education, National Taiwan Normal University



Wei-Ta Fang was born in Kaohsiung, Taiwan on February 14, 1966. He received a BA degree in Land Economics and Administration from National Taipei University (Taipei, Taiwan) in 1989. He received his first master's degree in Environmental Planning (MEP) from Arizona State University, USA in 1994, and a second master's degree in Landscape Architecture in Design studies (MDes.S.) from the Graduate School of Design, Harvard University, USA in 2001. He obtained a Ph.D. from the Department of Ecosystem Science & Management, Texas A&M University, USA in 2005. He served as a specialist in the Taipei Land Management Bureau in 1991 and 1992 and a senior specialist in-charge of environmental education and environmental impact assessments (EIAs) at Taiwan's Environmental Protection Administration (EPA) Headquarters from 1994 to 2006. Dr. Fang was also the Co-Principal Investigator (Co-PI) for the National Environmental Literacy Survey in Taiwan during 2012 and 2020. He is currently serving as a Distinguished Professor as the Director of the Graduate Institute of Environmental Education, National Taiwan Normal University and is the Presidents of the Society of Wetland Scientists (SWS) Asia Chapter and Taiwan Wetland Society (TWS). He lives in Taipei City with his wife, Chia-Ying Ho, and two sons, Cheng-Jun (June) and Cheng-Shun (Sam). His contact e-mail is wawaf@hotmail.com.

Prof. Kuang-Chung Lee

National Dong Hwa University/ Professor



Graduated in 1989 from the Geography Department, National Taiwan University. From 1991 to 1997, worked for the Council of Agriculture and Taroko National Park, Taiwan. In 2001, obtained the Ph.D. degree from the Geography Department of University College London. Currently is a Professor at College of Environmental Studies, National Dong Hwa University, Taiwan. Since 2002, Dr. Kuang-Chung Lee has carried out about 40 research projects which mainly focused on community participation, natural and cultural landscape conservation, collaborative planning and management of protected areas. He is currently a commission member of IUCN-WCPA, IUCN-CEC, ICOMOS, ProGEO as well as the International Partnership for the Satoyama Initiative (IPSI) contact person for National Dong Hwa University.

Prof. Yi-Ju Yang

National Dong Hwa University, Department of Natural Resources and Environmental Studies / Associate Professor

She is currently an associate professor in the Department of Natural Resources and Environmental Sciences of Donghua University. She specializes in amphibian ecology and conservation, offering courses related to nature conservation such as biodiversity, global environmental change and sustainable development, environmental education textbooks and methods, and is useful for cultivating young environmental education. Talents spare no effort. He used to be the chairman of the Association of Environmental Education of the Republic of China and the chairman of the Taiwan Amphibian Conservation Association. Long-term promotion of volunteers to participate in the citizen science project of monitoring the frogs in the wild in Taiwan, develop various frogs popular science environmental education textbooks, and promote the public to understand and conserve frogs.



Ms. Yueh-Mei Liu

The Society of Wilderness (SOW)/chairman

The Society of Wilderness (SOW) was established on June 25, 1995. SOW is dedicated to protecting natural and ecological environment in Taiwan by means of ducation, preserving habitats, and participation. Besides the headquarters in Taipei, SOW has 11 branches and 10 preparatory offices nationwide. SOW has over 16,000 family members working together to guard the mother earth.



Ms. Hsiao-Fen Lai

Homemakers United Foundation, Standing Supervisor

Hsiao-Fen Lai currently works as the Standing Supervisor for the Homemakers United Foundation (HUF). HUF is the NGO mainly focus on women's solidarity for improving environment. She has advocated the awareness and the actions of sustainable development, community renewable energy, low carbon living and food security & safety for many years in Taiwan. As a national committee for the sustainable development, she is actively involved in integrating gender perspective into environmental education. She acquired the Master's Degree of Cultural and Social History from Essex University in UK, and Master of Sociology from Tsing-Hua University.



Dr. Yung-Cheng Lin

Hushan Experimental Elementary School, Tainan / Principal

Hushan Experimental Primary School is a century-old school. There was a crisis of abandonment in the past, but since 2012, Principal Lin Yongcheng has led teachers and students to promote the United Nations Eco School system to become an "ecological primary school, children's exploration paradise". In 2014, an internationally renowned animal conservationist-Jane. Dame Goode went to school to personally unveil the "Jane Goode Memorial Wall". In 2015, it was awarded the highest honor symbol of Eco Campus by the Environmental Protection Agency-Green Flag. This is Taiwan's first local certified green flag school; in 2020, it will be the first award-winning school in Taiwan to be certified by three green flags.



President Lin also led Hushan Shixiao to win a number of special awards such as the National Sustainable Development Award and the Gold Award for Teaching Excellence. He himself won the "Executive Yuan National Environmental Education Award" (the only one in the country), the "Manager" magazine annual SUPER MVP (the first president in the country won this award, and is currently the only one in the country) and the GHF Education Innovation Scholar Award. "

Ms. Chih-Ying Lee

EnvEd Centre for Innovative Learning (EECIL) /CEO

EnvEd Centre for Innovative Learning (EECIL), a Taiwanese social enterprise officially established in 2017, has taken an impressive step forward under the vision of "Innovative Learning for Our Land and People". EECIL designs and implements training programmes, environmental education courses, outdoor learning activities for wide ranges of learners. It also operates and provides management consulting to environmental learning centres in Taiwan. EECIL is committed to contributing to SDGs through the participation of sustainable forest management and dissemination of urban environmental education.



Website: <http://www.innovativelearning.com.tw>

FB page: <https://www.facebook.com/InnovativelearningTW>

Mr. Meng-Hsien Chuang

Watch Nature Ecological Consultant Co.,Ltd / CEO

We call ourselves "the maltose that combines peanuts in peanut candy, allowing different stakeholders to participate in the goal of nature conservation." We hope that the public sector, environmental education units, or the general public can participate in nature conservation. The things we promote will include three stages:

- III. Investigation of local ecology and environmental resources.
- IV. Translate local stories or environmental messages, such as the conversion of courses or activities.
- V. Let the information stay in the local area: that is, cultivate the local nature conservation manpower and capacity, so that the nature conservation information can continue to be disseminated and exert influence.



Ms. Li-Shu Chen

National Museum of Marine Science & Technology/Director of Academy & Industry Section

I come from the National Museum of Marine Science & Technology which is built to raise the public awareness of marine environment, biodiversity, resources, culture, technology and conservation. The museum is located at Badozi Peninsula in Keelung.



I have been doing many environment education activities such as beach cleanup, Badozi Sato-umi class, CoralWatch marine citizen science project, horseshoe crab school parenting plan, and Crochet Reefs & coral conservation tour exhibition. I come here to learn and to get the connection with domestic and international partners through the workshop.

Mr. Shih-Hung Chen

Wild Bird Society of Taipei chief executive officer

As a legal person, the Taipei Wild Bird Society is a nature conservation organization established for 48 years. It has been committed to bird-related environmental conservation, education, research and publication for many years. The Taipei Bird Club currently manages two certified environmental education sites and one entrusted environmental education site, and has been promoting exchanges on bird issues between Taiwan and the world and cooperation with wetland education centers for a long time. Chen Shihong, the director general of the Institute of Environmental Education of Normal University, has been in office for 16 years. He specializes in environmental education field management, environmental education work to planning and design, and wetland conservation field planning and design. Now he is leading the promotion of Beiniaos's 50 employees. Field management, environmental education activities, ecological monitoring, habitat conservation, wildlife rescue and many other tasks.



Prof. Su-Hwa Lin

National Taichung University of Education/Associate professor
Vice Director of the GEEP APRC Project

- ♦ PhD, Institute of Environmental Education, Shafer University, UK (1994/07-2001/12)
- ♦ Master of Environmental Resources Institute, Shafer University, UK (1991/10-1992/10)
- ♦ Bachelor of Spanish, Private Tamkang University (1986/09-1990/06)

Field expertise:

- ♦ Natural resources and conservation
- ♦ Environmental education planning and management
- ♦ Sustainable development
- ♦ Energy saving and carbon reduction
- ♦ Eco-tourism
- ♦ Environmental Sociology



Mr. Chih-Yuan Pai

National Taichung University of Education / Researchers
Vice Director of the GEEP APRC Project



- ♦ Research on the Doctoral Program of Water Resources Education, Department of Environment and Life Sciences, Shafer University, UK
- ♦ Master of Space Science, Central University
- ♦ Bachelor of Atmospheric Physics, Chuo University
- ♦ Expertise: School and social environmental education, disaster prevention education, environmental education, community environmental transformation, remote sensing detection, geographic information system

Ms. Kuan-Miao Liu

Environmental Ethics Foundation of Taiwan / The Director of Environmental Education Dept.
Vice Director of the GEEP APRC Project



Master of Environmental Education Institute, National Taiwan Normal University

Expertise: environmental education, environmental learning center management, environmental education curriculum planning, environmental interpretation system development, environmental education personnel training.

<https://eeft.org.tw/>

Cheng-Yu (Mori) Jung

International Coordinator, GEEP APRC

M.A., Environmental Humanities, August 2011, University of Utah
Environmental Humanities Graduate Program
B.A., English, June 2002, Huaan University (Taipei)
Department of Foreign Languages and Literature

Ms. Su-Chih Hsu

Department of Comprehensive Planning, Environmental Protection Administration of Taiwan / Deputy Director

Ms. Hsiu-Hui Weng (Wendy)

Department of Comprehensive Planning, Environmental Protection Administration of Taiwan/ Senior Technical Specialist

Ms. Hui-Wen Cheng (Sunny)

Department of Comprehensive Planning, Environmental Protection Administration of Taiwan/ Section Chief

Ms. I-Hsin Kuo (Shin)

Environmental Protection Administration of Taiwan/ Environmental Technical Specialist

Immersive Experience

Foraging in the Forest—Immersive Experience on Toucheng Farm

The event, Foraging in the Forest, is based on the idea of food design, and invites all participants to fully immerse themselves in the world of birds, honeybees, and mammals to enjoy the bountiful resources of the forest. Participants will better understand the ecological crisis that these creatures face through storytelling. The event is rich in sensory experiences and infuses artistic and aesthetic aspects into the activities.

The outdoor course in this event is Foraging in the Forest. It is based on the idea of food design, and invites all participants to fully immerse themselves in the world of birds, honeybees, and mammals to enjoy the resources of the forest. Participants will better understand the ecological crisis that these creatures face through storytelling. The event is rich in sensory experiences and infuses artistic and aesthetic aspects into the activities.



Toucheng Leisure Farm

No.125-1, Gengxin Rd., Toucheng Township, Yilan, 26145, Taiwan

<https://www.tcfarm.com.tw/>

Tel : +8863 9772 222

Fax : +8863 9778 688

Email : tcfarminfo@gmail.com

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Environmental Protection Administration, Executive Yuan, R.O.C. / EPA

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Environmental Ethics Foundation of Taiwan