

IPMEN 2025

International Pacific Marine Educators Network

2025 IPMEN
International Pacific Marine Educators Network
APRIL 14-17, 2025 | KAHSIUNG, TAIWAN

IPMEN 2025 Conference Program

04/14(Mon) Conference Opening – Venue NSYSU

09:00-10:00 IPMEN committee visit OAC(Delegates) OAC Headquarter

09:00-10:00 Field trip College of Marine Sciences

09:30-12:00 Fish rubbing experience MA2016

12:00-13:00 Lunch break MA2016

13:00-16:00 Conference registration NSYSU IR (Lobby)

13:00-18:00 Exhibition & Booth open NSYSU IR (Lobby)

13:00-14:00 Opening ceremony NSYSU IR (R1001)

14:00-14:30 Session 1 Keynote speech NSYSU IR (R1001)

Tsuyoshi Sasaki (Tokyo, Japan)
Cooperation, coordination, and collaboration with ocean literacy educators and marine science and technology experts

14:30-15:40 Strand 1 concurrent session (Part 1) NSYSU IR (R1001)

Highlighting Asia-Pacific examples of the local community knowledge with connections to Ocean Literacy and Ocean Decade White Paper Challenge 10.

- S1-1 The Development of Ocean Literacy (Craig Strang, USA)
- S1-2 Education for Ocean Literacy: A Study of the Approaches in Taiwan and Japan (Min-Sheng Wang, Yi-Che Shih, Taiwan)
- S1-3 Integrating Maritime Education to Promote Ocean Literacy: A Case Study of MAAP in the Philippines (Angelica Baylan, Philippines)
- S1-4 Marine Tales: Ocean-Themed Picture Books in Malaysian Classrooms (Aza Jaahar Ahmad Tajuddin, Tengku Fara Kamilla Tengku Mohd Kamil, Nur Salina Ismail, Malaysia) (pre-record)

15:40-16:00 Tea Break NSYSU IR (Lobby)

16:00-17:20 Strand 1 concurrent session (Part 2) NSYSU IR (R1001)

Highlighting Asia-Pacific examples of the local community knowledge with connections to Ocean Literacy and Ocean Decade White Paper Challenge 10.

- S1-5 Assessing and Exploring Ocean Literacy among Taiwanese Students(Ling-Ya Hung, Taiwan)
- S1-6 Regional collaborative marine education in Japan(Yuu Sugita, Japan)
- S1-7 Bring the Ocean into Classroom(Integrating Digital Marine Education into School Curriculum)(Ya-shien, Chou, Chieh-Cheng, Chang, Ling-Ya, Hung, Taiwan)
- S1-8 Miniboats on A Voyage of Discovery, Connection, and Collaboration(Casle Stymlist, USA)

18:00-20:00 Evening welcoming event Sunset Beach Resort

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04/15(Tue) Keynotes & Concurrent Sessions – Venue NSYSU

14:00-14:30 Strand 3 session keynote speech NSYSU IR (R1001)

Sylvia Spalding (Hawaii, USA)
Three Indigenous Elders on Community, Change and Knowledge

14:30-15:40 Strand 3 concurrent session (Part 1) NSYSU IR (R1001)

Highlighting Asia-Pacific examples of the links between local ocean community knowledge and Ocean Literacy with a focus on Climate Change and extreme weather.

- S3-1 Distribution patterns of cryptobenthic fish across pollution gradients (Maxine Cutracci, Italy & Hong Kong)
- S3-2 Building undergraduate ocean connections: Lessons learned from ten years of a coastal ecology course-based undergraduate research experience in Hawaii(Lessons learned from ten years of a coastal ecology course-based undergraduate research experience (CURE)—Our Project in Hawaii's Intellectual OPIRI (Joanna Philippoff, USA)
- S3-3 Exploring Concepts to Restore Humanity's Relationship with the Ocean through Academic Education for Sustainable Marine Development(Wilma Mueller, Germany)
- S3-4 Voice of the Sea: a model for sharing stories across the ocean (Kanesa Duncan Seraphin & Thor Seraphin, USA)(Pre-record)

16:00-17:10 Workshop NSYSU IR (4002)

Cognitive Experiment Module Curriculum Design on Inorganic Carbon Sequestration in Nature and Seawater Acidification

By:Huang, Chin-Chan, Yeh, Chun-Chiao, Chan, Wen-Ko, Chen, Ming-Nan, Zeng, Ke-Hsuan, Hsu, Yu-Ling, Taiwan

16:00-17:20 Strand 3 concurrent session (Part 2) NSYSU IR (R1001)

Highlighting Asia-Pacific examples of the links between local ocean community knowledge and Ocean Literacy with a focus on Climate Change and extreme weather.

- S3-5 Beyond the Waves: Integrating Satoyama and Satoumi Principles into a Holistic Marine Education Framework (Chen, Yung-Hui, Taiwan)
- S3-6 Incorporating community observations and traditional fishery knowledge on changing climate into fishery science and management.(Mark Mitsuyasu, USA)
- S3-7 Cultivating Ocean Stewards: From Classroom to Coastline 77A School? Journey with Seaweed and Hands-On Marine Science (Carlos Rius, Hong Kong)
- S3-8 EnviroVision2050GREEN LEADERS:Empowering the Next Generation to Protect Our Oceans-TRANSFORMINARY (YOUTH ORIENTED) (ACTION DRIVEN (Charu Gupta, India)(Pre-record)
- S3-9 Understanding ocean literacy and climate change through research and experience perspectives among Filipino and Indonesian youth(Jose Marie A. Estolor, Nor Anisa, Lance C. Boyd, Philippines)(Pre-record)

17:30-19:30 Documentary night NSYSU CMS MA3020

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04/15(Tue) Keynotes & Concurrent Sessions – Venue NSYSU

09:00-16:00 Conference registration NSYSU IR (Lobby)

09:00-09:30 Strand 2 Session Keynote speech NSYSU IR (R1001)

Pieter Romer (Victoria, Canada)
Advancing Indigenous involvement in ocean monitoring through meaningful engagement and building true partnerships

09:30-10:40 Strand 2 concurrent session (Part 1) NSYSU IR (R1001)

Exemplary programs that link local ocean community knowledge to Ocean Literacy.

- S2-1 Growing Ocean Communities through dialogues on land and sea- what is collaborative governance?(Natalie Davey)
- S2-2 Exploring Place-Based Indigenous STEAM Education: TEK in River Fishing of Amis (Lin-Chien Tang, Taiwan)
- S2-3 Reconnecting People with the Ocean: The Role of WWF Hong Kong's Hol Ha Marine Life Centre(Augustine Chung, Hong Kong)

10:40-10:50 Tea Break NSYSU IR (Lobby)

10:50-12:10 Strand 2 concurrent session (Part 2) NSYSU IR (R1001)

Exemplary programs that link local ocean community knowledge to Ocean Literacy.

- S2-4 Japan's fish-eating culture and climate change (Sachiko Oguma and Miho Takakura, Japan)
- S2-5 Two "Secrets of the Ocean"(Miho Takakura and Sachiko Oguma, Japan)
- S2-6 Walking Taiwan's Coastline: An Immersive Journey to Promote Ocean Literacy and Marine Conservation(Chun-Yen Lin, Chao-Wai Kuo, Sheng-Ji Lin, Zong-Shun Huang, Taiwan)
- S2-7 A survey of the relationship between humans and the ocean-what Taiwanese think depends on how Taiwanese feel about this ocean-related issues(Hou Ting-Yu, Taiwan)
- S2-8 Integrating Traditional Knowledge and Scientific Research for Sustainable Coastal Resilience in Bangladesh: A Blue Ocean Foundation Initiative (Mohammad Muslem Uddin, Bangladesh)(Pre-record)

10:50-12:10 Workshop NSYSU IR (4002)

Workshop on Building a Model Ocean Literacy Framework Using the Ocean Science Sequence

By:Ray Yen, Tzu-Hung Wang, Lishu Chen, Hsin-Tsun Lai, Taiwan

12:10-14:00 Lunch break NSYSU IR (R1001)

12:10-14:00 UN Ocean Decade Youth Dialogue NSYSU IR (4002)

Lead by Future Earth Taipei ECR (Chinese)

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04/16(Wed) Keynotes & Concurrent Sessions – Venue NSYSU

09:00-16:00 Conference registration NSYSU IR (Lobby)

09:00-09:30 Strand 4 Session Keynote speech NSYSU IR (R1001)

Mike Spranger (Florida, USA)
Instilling an Ocean Ethic in Home, School and Community

09:30-10:40 Strand 4 concurrent session (Part 1) NSYSU IR (R1001)

Asia-Pacific examples of collaboration between communities and international ocean scientists (Asia-Pacific Sea Grant Consortium initiative)

- S4-1 Marine environment education for Korean underwater societies will be started in this spring (Jong Gae Joo, Hyewong Gwon Pyo, Pi Soon Jang, Republic of Korea)
- S4-2 The construction of competency model of sustainability for marine industry practitioners(Hsieh, Fu-Man, Chang, Pai-Chi, Cheng, YR, Taiwan)
- S4-3 Effectiveness and Challenges of Integrating Marine Education into School Curricula in Taiwan from the Perspective of Teacher Empowerment Training (Lin, Yen-Ling, Kuo, Chia-Yu, Tsai, Liang-Ting, Chang Cheng-Chie, Chang, Wei-Lun, Taiwan)
- S4-4 Marine education programs presented by four boat operators in Hawaii and the impact they have on advancing general ocean knowledge (Michael Markrich, USA) Pre-record

10:40-10:50 Tea Break NSYSU IR (Lobby)

10:50-12:00 Strand 4 concurrent session (Part 2) NSYSU IR (R1001)

Exemplary programs that link local ocean community knowledge to Ocean Literacy.

- S4-5 Gender Mainstreaming in Ocean Literacy: Participation in the NODASS Ocean Big Data Contest (Chen-Szu-Hsue, Chen, Yun-Sin, Liu, Ya-Chih, Taiwan)
- S4-6 Comparing the U.S. OSS Curriculum and Taiwan's Marine Education: A Pathway to Strengthening Localized Ocean Literacy (Liu, Guan-Ying, Kuo, Wei-Wei Wu, Chin-Kuo, Taiwan)
- S4-7 Promoting Ocean Science Sequence Textbooks and Ocean Literacy Education: A Summary Report of Achievements in 2023-2024 (Chen, Yun-Sin, Taiwan)
- S4-8 Students' Foreign Language Anxiety and Learning Outcomes by Ocean Science Sequence(OSS) in Bilingual Education in Taiwan (Su, Weichun(Jasmin), Taiwan)

12:00-14:00 Lunch break NSYSU IR (R1001)

13:00-14:20 Keynote Speech Huaili Hall

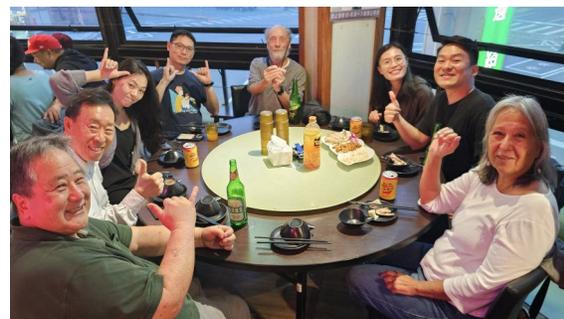
Harry Bredahl (Australia)
IPMEN Prequel - Chance Favours the Prepared Mind

Kitty Simonds (Hawaii USA)
Cocktails, Coup and Covid: The Inception, Creation and Growth of IPMEN

15:00-16:30 Takao Declaration and close ceremony Huaili Hall

17:00-19:00 IPMEN 2025 conference banquet Huaili Hall

Welcome Dinner with the IPMEN 2025 delegates





Meeting with the Oceans Affairs Council

Dr. Baylon attended the Courtesy Meeting with the respected Lady Taiwan Ocean Affairs Council Minister Hon Dr. Bi-Ling Kuan along with her officials : ¹ Lady President Chung -Ling Chen of the National Academy of Marine Research and the Dean of the College of Marine Sciences of the National Sun Yat -sen University ² Dr. Te-yu Liao, ³ Dr. Harry Breinhal.



Dr. Angelica Baylon as MAAP ERO Director (representing MAAP President VAdm Eduardo Ma R Santos, AFP (Ret) and as one of the AMEA Board of Directors) was honored to represent the Philippines and be part of the IPMEN and AMEA delegation to meet and listen to the remarkable message of Ocean Affairs Council







Taiwan Fish Rubbing by College of Marine Science

Trained on Taiwan Fish Rubbing and produced an art approved by our trainer at the National Sun Yat-Sen University College of Marine Sciences (NSYSU).



MAAP Best Practices by Dr. Baylon

On behalf of VADM Eduardo Ma R Santos, AFP. (Ret.), MAAP President, Dr. Baylon shared the MAAP's best practices and importance of Ocean Literacy

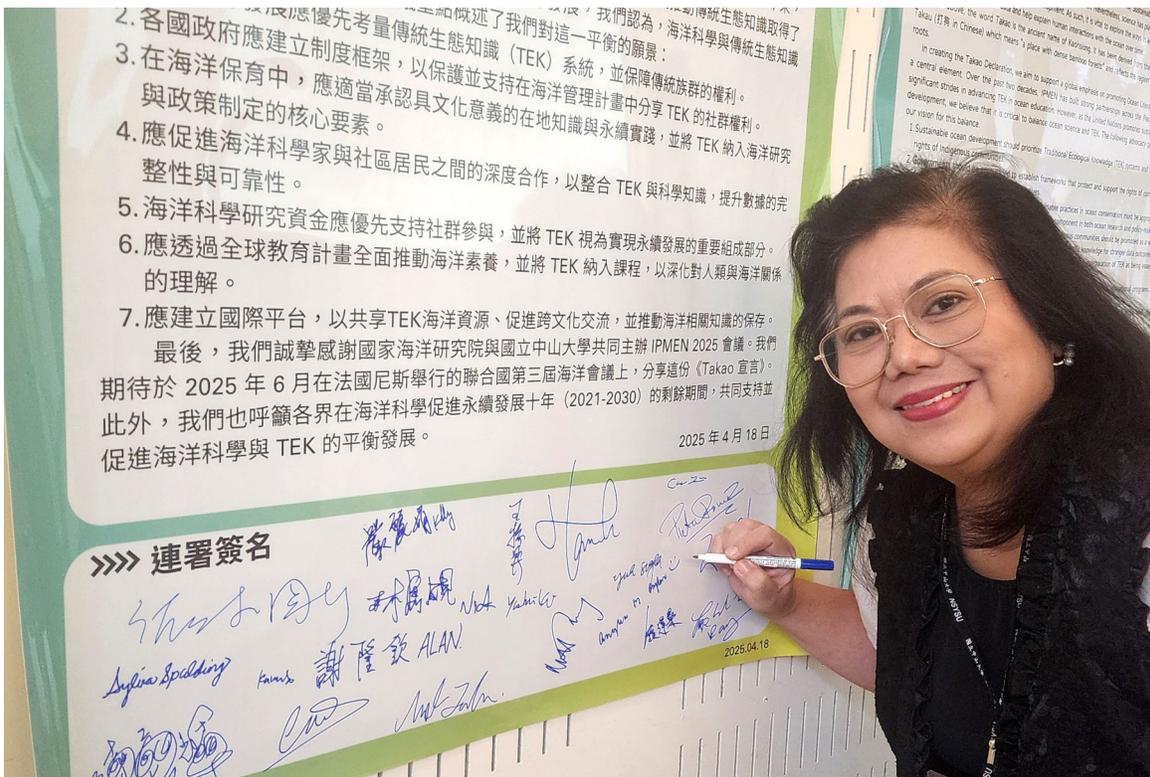


Dr. Baylon as a Panel Discussant

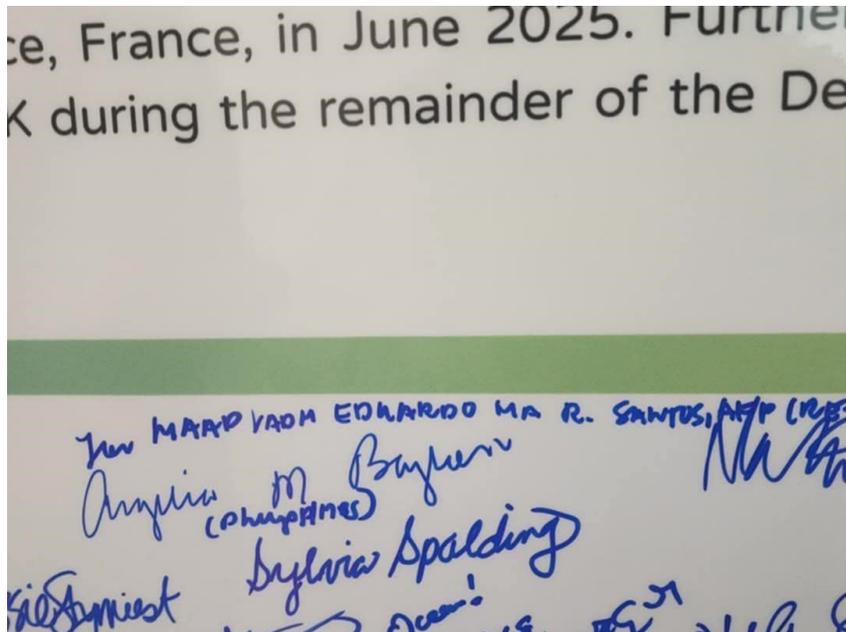
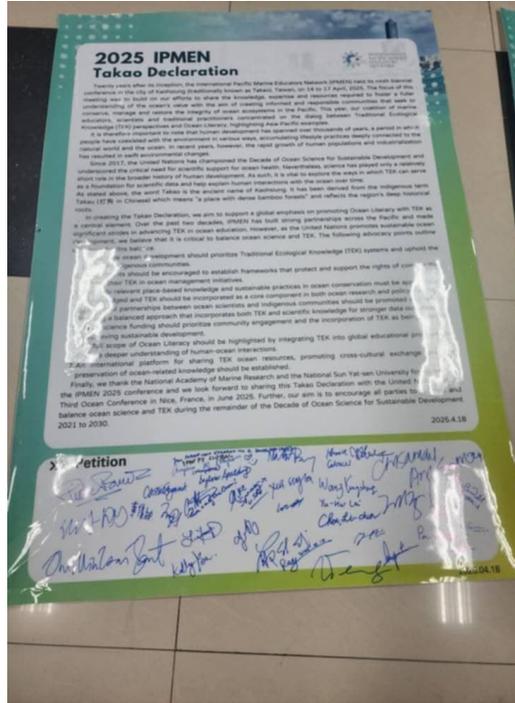
Dr. Baylon was a panel discussant for the session on Asia Pacific examples of local community knowledge connections to Ocean Literacy and Ocean Decade a discussion on the integration of Ocean Literacy into maritime education. The session was chaired by Dr. Tsuyoshi Sasaki, the chair of AMEA and included co-discussants and experts from OSSSL, as well as practitioners from Malaysia, Taiwan, and the USA.



Dr. Baylon at the IPMEN 2025



Signed by Dr. Baylon on behalf of VADM Eduardo Ma R Santos, AFP (Ret.), MAAP President



Takao Declaration

Dr. Baylon supporting the Takao Declaration as one of the signatories on behalf of MAAP President VADM Eduardo Ma R Santos, AFP (Ret.)

The IPMEN officially read and presented to the Taiwan government officials present, led by the Hon. Minister Dr Bi -Ling Kuan of the Ocean Affairs Council.



2025 IPMEN Takao Declaration

Twenty years after its inception, the International Pacific Marine Educators Network (IPMEN) held its ninth biennial conference in the city of Kaohsiung (traditionally known as Takao), Taiwan, on 14 to 17 April, 2025. The focus of this meeting was to build on our efforts to share the knowledge, expertise and resources required to foster a fuller understanding of the ocean's value with the aim of creating informed and responsible communities that seek to conserve, manage and restore the integrity of ocean ecosystems in the Pacific. This year, our coalition of marine educators, scientists and traditional practitioners concentrated on the dialog between Traditional Ecological Knowledge (TEK) perspectives and Ocean Literacy, highlighting Asia-Pacific examples.

It is therefore important to note that human development has spanned over thousands of years, a period in which people have coexisted with the environment in various ways, accumulating lifestyle practices deeply connected to the natural world and the ocean. In recent years, however, the rapid growth of human populations and industrialization has resulted in swift environmental changes.

Since 2017, the United Nations has championed the Decade of Ocean Science for Sustainable Development and underscored the critical need for scientific support for ocean health. Nevertheless, science has only a relatively short role in the broader history of human development. As such, it is vital to explore the ways in which TEK can serve as a foundation for scientific data and help explain human interactions with the ocean over time.

As stated above, the word Takao is the ancient name of Kaohsiung. It has been derived from the indigenous term Takau (打狗 in Chinese) which means "a place with dense bamboo forests" and reflects the deep historical connection between the city and the sea.

By signing the Takao Declaration, we aim to support a global emphasis on promoting Ocean Literacy in partnership with TEK and Indigenous communities. We encourage all participants to establish frameworks that protect and sustain traditional knowledge in ocean management initiatives. We believe that it is critical to balance ocean science and TEK. We encourage all participants to establish frameworks that protect and sustain traditional knowledge in ocean management initiatives. We believe that it is critical to balance ocean science and TEK. We encourage all participants to establish frameworks that protect and sustain traditional knowledge in ocean management initiatives.

2025 IPMEN 打狗宣言

自創立二十年來，國際太平洋海洋教育者網絡 (IPMEN) 於 2 日在台灣高雄 (傳統名稱為「打狗 Takao」) 舉辦了第九屆雙年會。本一步推動知識、專業技能與資源的共享，以提升對海洋價值的理解，素養的社群，共同致力於保育、管理與恢復太平洋海洋生態系統的學、海洋教育與傳統生態知識 (TEK) 領域的專家們，特別聚焦於傳統 (Ocean Literacy) 之間的對話，並強調亞太地區的實踐案例。

在人類數千年的發展歷程中，我們與自然環境共存，並累積了真智慧。然而，近年來，由於人口急速成長與工業化發展，環境變遷的速年起，聯合國發起海洋科學促進永續發展十年 (2021-2030)，強調其重要性。然而，科學在整個人類歷史中的應用時間仍相對較短。因此何成為科學數據的基礎，並解釋人類與海洋的長期互動，顯得尤為重要。

上述，「Takao」是高雄的傳統名稱，源自原住民族語「Takau」，意為「茂密之地」，反映出該地與海洋的深厚連結。在制定海洋素養與傳統生態知識 (TEK) 作為全球推廣的核心，IPMEN 在太平洋地區建立了強烈的合作關係，並在海洋教育領域發揮著至關重要的作用。隨著聯合國推動海洋發展，我們認為平衡海洋科學與 TEK 至關重要。以下倡議所有參與者應建立框架，以保護和可持續傳統知識在海洋管理倡議中。我們鼓勵所有參與者建立框架，以保護和可持續傳統知識在海洋管理倡議中。我們鼓勵所有參與者建立框架，以保護和可持續傳統知識在海洋管理倡議中。