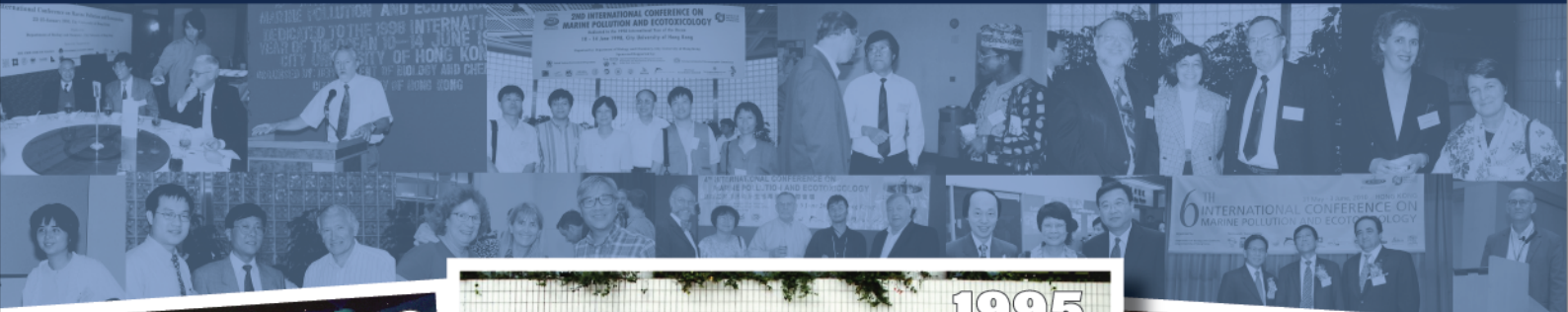


10th International Conference on Marine Pollution and Ecotoxicology

PROGRAM BOOK



1998



1995



2001

30th ANNIVERSARY



2004



2007



2010



2013



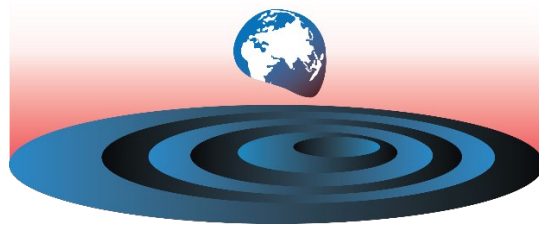
2016



2019

City University of Hong Kong, Hong Kong SAR, China
3-6 January, 2024

- Organizers ▶  SKLMP 海洋污染國家重點實驗室
-  Department of Chemistry 香港城市大學 City University of Hong Kong
- Co-organizers ▶  PEMSEA
-  Coastal COMMIT
-  Global Estuaries Monitoring Programme
- Sponsors ▶  Croucher Foundation 裘德基金會
-  SWIRE TRUST
- Supporters ▶  香港海洋生態協會
-  ELSEVIER
-  Ecosystems Ltd.
-  廈門大學 XIAMEN UNIVERSITY



10th International Conference on Marine Pollution and Ecotoxicology

3 – 6 January, 2024
Hong Kong

Programme



Organized by

**State Key Laboratory of Marine Pollution
&
Department of Chemistry**

City University of Hong Kong

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Preface

Message from the Organizing Committee

On behalf of the Organizing Committee of the 10th International Conference on Marine Pollution and Ecotoxicology (ICMPE-10), and on behalf of City University of Hong Kong (CityU), may I extend my warmest welcome to all our participants and visitors. The ICMPE-10 is jointly organized by the State Key Laboratory of Marine Pollution (SKLMP) and the Department of Chemistry of CityU, in collaboration with Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) and UNESCO IOC Regional Training and Research Centre on Coastal Contaminant Monitoring and Marine Innovative Technologies.

The ICMPE was initially established by Professor Rudolf Wu and began at City University of Hong Kong in January, 1995 ([Figure 1](#)). Building upon its initial success, the ICMPE conference series subsequently flourished and continued to be held in Hong Kong in 1998, 2001, 2004, 2007, 2010, 2013, 2016, and 2019. **This conference series has become a distinguished event in the international arena of marine pollution and ecotoxicology research.** Over the years, the number of participants has doubled – from 150 in 1995 to 303 in 2019.



Figure 1. Group photo taken at the 1st ICMPE held at CityU during 22-26 January, 1995

The conference proceedings of the ICMPE conferences have significantly influenced our field of research. Thanks to our enduring partnership with Elsevier, all conference proceedings have been published as Special Issues in the international journal *Marine Pollution Bulletin*. These were published in 1995, 1999, 2002, 2005, 2008, 2011, 2014, 2017, and 2021, comprising 51, 55, 52, 57, 83, 75, 68, 66, and 72 articles, respectively. Many of our conference papers have been widely cited, and [Table 1](#) lists the papers with over 100 citations. The most cited paper (some 591 citations), authored by Professor Rudolf Wu, provides a comprehensive review on the biological

and ecosystem responses to hypoxia. Professor Hua-Sheng Hong of Xiamen University, a strong supporter of ICMPE, appears three times on this highly cited list, having published important research articles revealing contamination of persistent organic pollutants in marine sediments of several coastal cities (**Table 1**). Other authors appearing twice on this list include Professor Michael Depledge, Professor Xin-Hong Wang, and myself. These papers cover topics such as biomonitoring, pollution from mariculture, polycyclic aromatic hydrocarbons (PAHs), oil pollution, and heavy metals in 1995; organochlorinated compounds and endocrine disrupting chemicals (EDCs) in 1999; hypoxia, biomagnification of pollutants in marine systems, models for deriving predicted no effect concentrations, ammonia toxicity, persistent EDCs, and organochlorine pesticides in 2002; perfluorinated compounds and effects of multiple stressors on marine organisms in 2005; PAHs and polybrominated diphenyl ethers in 2011; micro- and nano-plastics, and eutrophication in 2017. These topics continue to remain pertinent to the present day.

Table 1. Twenty-three most cited conference papers with over 100 citations, published in the conference proceedings of ICMPE series as Special Issues of *Marine Pollution Bulletin* (MPB).

Rank	Details of each of the most cited publication	Citations*
1	Wu RSS (2002) Hypoxia: from molecular responses to ecosystem responses. MPB 45: 35-45	591
2	Rainbow PS (1995) Biomonitoring of heavy metal availability in the marine environment. MPB 31: 183-192	550
3	Yamashita N, Kannan K, Taniyasu S, Horii YC, Petrick G, Gamo T (2005) A global survey of perfluorinated acids in oceans. MPB 51: 658-668	478
4	Wu RSS (1995) The environmental impact of marine fish culture: Towards a sustainable future. MPB 31: 159-166	406
5	Chae Y, An YJ (2017) Effects of micro- and nanoplastics on aquatic ecosystems: Current research trends and perspectives. 124: 624-632	356
6	Gray JS (2002) Biomagnification in marine systems: the perspective of an ecologist. 45: 46-52	330
7	Wheeler JR, Grist EPM, Leung KMY, Morrith D, Crane M (2002) Species sensitivity distributions: data and model choice. MPB 45: 192-202	324
8	Gilbert PM (2017) Eutrophication, harmful algae and biodiversity – Challenging paradigms in a world of complex nutrient changes. MPB 124: 591-606	300
9	Hong HS, Xu L, Zhang L, Chen JS, Wong YS, Wan TSM (1995) Environmental fate and chemistry of organic pollutants in the sediment of Xiamen and Victoria Harbours. MPB 31: 229-236	265
10	Witt G (1995) Polycyclic aromatic hydrocarbons in water and sediment of the Baltic Sea. MPB 31: 237-248	260
11	Atlas RM (1995) Petroleum biodegradation and oil spill bioremediation. MPB 31: 178-182	256
12	Randall DJ, Tsui TKN (2002) Ammonia toxicity in fish. MPB 45: 17-23	227

13	Tanabe S (2002) Contamination and toxic effects of persistent endocrine disrupters in marine mammals and birds, MPB 45: 69-77	198
14	Doong RA, Peng CK, Sun YC (2002) Composition and distribution of organochlorine pesticide residues in surface sediments from the Wu-Shi River estuary, Taiwan. MPB 45: 246-253	172
15	Depledge MH, Aagaard A, Györkös P (1995) Assessment of trace metal toxicity using molecular, physiological and behavioural biomarkers. MPB 31: 19-27	164
16	Wiseman SB, Wan Y, Chang H, Zhang XW, Hecker M, Jones PD, Giesy JP (2011) Polybrominated diphenyl ethers and their hydroxylated/ methoxylated analogs: Environmental sources, metabolic relationships, and relative toxicities. MPB 63: 179-188	162
17	Chen CW, Chen CF (2011) Distribution, origin, and potential toxicological significance of polycyclic aromatic hydrocarbons (PAHs) in sediments of Kaohsiung Harbor, Taiwan. MPB 63: 417-423	162
18	Hong HS, Chen WQ, Wang XH, Zhang LP (1999) Distribution and fate of organochlorine pollutants in the Pearl River Estuary. MPB 39: 376-382	162
19	Sericano JL, Wade TL, Jackson TJ, Brooks JM, Tripp BW, Farrington JW, Mee LD, Readmann, Villeneuve JP, Goldberg ED (1995) Trace organic contamination in the Americas: An overview of the US National Status & Trends and the International 'Mussel Watch' programmes. MPB 31: 214-225	162
20	Adam SM (2005) Assessing cause and effect of multiple stressors on marine systems. MPB 51: 649-657	157
21	Depledge MH, Billinghurst Z (1999) Ecological significance of endocrine disruption in marine invertebrates. MPB 39: 32-38	162
22	Kwok KWH, Leung KMY (2005) Toxicity of antifouling biocides to the intertidal harpacticoid copepod <i>Tigriopus japonicus</i> (Crustacea, Copepoda): Effects of temperature and salinity. MPB 51: 8-12	140
23	Wu YL, Wang XH, Li YY, Hong HS (2011) Occurrence of polycyclic aromatic hydrocarbons (PAHs) in seawater from the Western Taiwan Strait, China. MPB 63: 459-463	102

*Notes: Total number of citations up to the end of November 2023, based on Web of Science.

The ICMPE conference has progressed in parallel with the growth of CityU's research in marine pollution and ecotoxicology. CityU was officially established in 1994, having been upgraded from the existing City Polytechnic of Hong Kong. This year marks the 30th Anniversary of this young and rapidly growing university, which is globally ranked 70th and 82nd by the QS and Times Higher Education World University Rankings 2024, respectively. In addition to providing high-quality education and conducting fundamental research, CityU places great emphasis on translational research and innovative inventions. Professor Rudolf Wu, the founding Head of CityU's Department of Biology and Chemistry (renamed as Department of Chemistry in 2017), identified marine environmental research as an area of strategic research during the 1990s, due to pressing pollution-related issues not only in Hong Kong, but worldwide. To address such diverse challenges, Professor Wu assembled a

multidisciplinary research team comprising 24 scholars from six local universities, including biologists, chemists, ecologists, oceanographers, engineers, and statisticians. Over the following years, their transdisciplinary research collaboration has demonstrated great synergy in developing novel pollution monitoring and control technologies, elucidating toxic mechanisms of priority pollutants, deriving environmental quality benchmarks for risk assessment and management of priority chemical contaminants and seafood safety, and offering policy and technological solutions to mitigate impacts on marine ecosystems and human health.

In 2004, this multidisciplinary team, led by Professor Wu, secured US\$ 8.7 million from the Research Grants Council of the Hong Kong SAR Government to establish the Area of Excellence (AoE) Centre for Marine Environmental Research and Innovative Technology (MERIT) at CityU. Through remarkable teamwork and long-term partnerships, the MERIT Centre has achieved numerous breakthroughs in research and innovation, consistently providing scientific support to the Hong Kong government in combating pollution and enhancing marine conservation. It has emerged as one of the top AoE centres in Hong Kong. In late 2009, the MERIT Centre, in collaboration with Xiamen University's State Key Laboratory of Marine Environmental Science, was further recognized as the Partner State Key Laboratory in Marine Pollution by the Ministry of Science and Technology (MOST) of China and the Innovation and Technology Commission (ITC) of the Hong Kong SAR Government. This laboratory underwent a rigorous evaluation by MOST and ITC during 2017-2018, eventually earning the rating of an "Outstanding State Key Laboratory" and was subsequently upgraded to an independent State Key Laboratory of Marine Pollution (SKLMP) in 2018.

Over the past three decades, we have witnessed significant improvements in water quality and the recovery of ecosystems in the marine environment of Hong Kong, (especially in Victoria and Tolo Harbours), thanks to the implementation of the Harbour Area Treatment Scheme and the Tolo Harbour Action Plan of the Hong Kong SAR Government. Furthermore, concentrations of many harmful pollutants (including metals, organochlorines and organotin compounds) in local seawater, sediments, and marine biota have declined as a result of improved collection and treatment of wastewater, as well as the enactment of relevant legislation and law enforcement. However, we still face challenges posed by regional eutrophication, hypoxia, plastics pollution, and emerging chemical contaminants, all of which continue to demand our attention.

Our SKLMP has experienced remarkable growth, now boasting over 70 members from eight local universities. Equipped with state-of-the-art laboratories and a wide range of vibrant research programs, we are dedicated to conducting frontier basic research, developing practical innovations to solve real-world problems, and creating positive impacts on a global, national, and local scale. A notable example is our leadership since June 2021 in the Global Estuaries Monitoring (GEM) Programme – a United Nations-endorsed Action Programme under the UN Decade of Ocean Science for Sustainable Development (2021-2030). The GEM, with the participation

of over 100 scientists from six continents, aims to establish a global monitoring network, apply standardized methods to monitor priority chemical contaminants in 100+ estuaries worldwide, identify pollution hotspots and priority contaminants, and collaborate with stakeholders in co-developing solutions. By doing so, we aim to make our estuaries cleaner and safer for all. In July 2022, our efforts were recognized as the SKLMP became the Regional Centre of Excellence (RCOE) in Marine Pollution Research within PEMSEA – an intergovernmental organization with 14 country members in the East Asia region. Additionally, in April 2023, UNESCO's Intergovernmental Oceanography Commission (IOC) entrusted the SKLMP to host the Regional Training and Research Centre on Coastal Contaminant Monitoring and Marine Innovative Technologies (RTRC-Coastal COMMIT) for the Western Pacific region, in collaboration with 22 national partners. Notably, the SKLMP plays a pivotal role in providing training to government officials and researchers, as well as leading and coordinating international research programs in both the East Asia and Western Pacific regions.

On behalf of the Organizing Committee, we are delighted to welcome you to the ICMPE-10 at CityU, especially as this occasion marks the 30th Anniversary of the conference series. After the epidemic subsided during the first quarter of 2023, we made a swift decision to resume the ICMPE meeting in January 2024. **The ICMPE-10 is expected to host approximately 330 participants from 24 countries/regions and will feature 23 keynote lectures, 16 invited talks, 80 regular oral presentations, and 146 poster presentations.** Furthermore, a workshop will be organized for participants to meet the editors of key marine science journals, including *Marine Pollution Bulletin*, *Marine Environmental Research*, *Journal of Sea Research*, and *Regional Studies in Marine Science*. This workshop aims to provide insights into the latest developments of these journals, discuss regular paper publication and special issue opportunities, and explore possibilities of serving on editorial boards. Another workshop will focus on the UN-endorsed GEM Programme, providing an opportunity for those interested to join this global effort and potentially lead a part of the program.

We would like to express our sincere gratitude to our sponsors and supporting organizations, whose invaluable contributions have made this conference possible and have enabled us to invite our prominent guests. **Firstly, we extend our deepest appreciation to the Croucher Foundation Limited and the Swire Trust for their major sponsorship of this conference.** Their generous financial support has allowed us to invite renowned scientists and environmental practitioners from overseas and mainland China to serve as Keynote and Invited Speakers, as well as cover some conference expenses. Secondly, we would like to thank Ecosystems Limited, the Hong Kong Marine Ecological Association, and Elsevier for their sponsorships and provision of scholarships for student participants who receive the best presentation awards. Also, the in-kind support from the Hong Kong Academy of Marine Science and Engineering is highly appreciated. Thirdly, we acknowledge Elsevier and its journal, *Marine Pollution Bulletin*, for their continuous support of the ICMPE conference series. With Elsevier's unwavering support, Ms. Haiyan Sun, the Elsevier Publisher of Oceanography Journals, has agreed to publish selected papers in a Virtual

Special Issue of *Marine Pollution Bulletin*, in collaboration with two other sister journals, *Marine Environmental Research* and *Regional Studies in Marine Science*. Authors will have the opportunity to select the journal in which they wish to publish their papers as part of the ICMPE conference proceedings. Fourthly, we extend our sincere thanks to the staff and students of SKLMP for their exceptional commitment and efforts in organizing this conference within a tight timeframe. We highly appreciate the dedicated colleagues involved, especially Dr. Dan Deng, Dr. Jiajun Wu, Ms. May Ng, Ms. Sora Cheung, and Ms. Josie Yan, for their untiring contributions in preparing and running this conference.

Last but not least, we are extremely grateful to Prof. Freddy Boey, President of CityU; Ms. Diane Wong Shuk Han, JP, Under Secretary for Environment and Ecology of the Hong Kong SAR Government; Mr. Wenxi Zhu, Head of UNESCO/IOC Regional Secretariat for WESTPAC; and Ms. Aimee Gonzales, Executive Director of the PEMSEA Resource Facility, for graciously sparing their valuable time to officiate at the opening ceremony of the ICMPE-10. Other honourable guests including Mr. Bing Ke, Associate Director and Dr. Wentao Wang, Head of Ocean Department of the Administrative Center for China's Agenda 21; Dr. Siu Fai Leung, Director of Agriculture, Fisheries and Conservation Department of the Hong Kong SAR Government and amongst others are greatly appreciated. We would also like to extend our gratitude to all the invited speakers, especially those who have travelled from afar to join us in Hong Kong.

Finally, I would like to express my heartfelt thanks to all of you for your tremendous support of the ICMPE-10 and for celebrating both the 30th Anniversary of CityU and the ICMPE conference series. Let us raise our glasses, capture memorable moments with more photographs, cherish our friendships and fruitful collaborations of the past, and look forward to a splendid future. I am confident that you will find this conference both scientifically productive and enjoyable.

We cordially invite all visitors to explore our vibrant city and the breath-taking countryside of Hong Kong, and to savour the diverse array of delicious food it has to offer. We wish you a pleasant and unforgettable stay in Hong Kong!

Yours sincerely,



Professor Kenneth M. Y. Leung
Chairman, Organizing Committee of the ICMPE-10
Director, SKLMP and Chair Professor, Department of Chemistry
City University of Hong Kong

Acknowledgements

The Organizing Committee of ICMPE-10 gratefully acknowledges the following organizations for their generous support and donations to this conference:

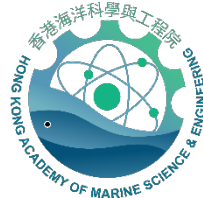
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Chairman

Prof. Kenneth Mei Yee LEUNG

*Director, State Key Laboratory of Marine Pollution
Chair Professor, Department of Chemistry
City University of Hong Kong*

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Dr. Leo Lai CHAN

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Visiting Associate Professor, Department of Biomedical Sciences
City University of Hong Kong*

Dr. Jianlin CHEN

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*Associate Professor, School of Life Sciences
The Chinese University of Hong Kong*

Prof. Chris Kong Chu WONG

*Professor, Department of Biology
Hong Kong Baptist University*

Dr. Moriaki YASUHARA

*Associate Professor, School of Biological Sciences
The University of Hong Kong*

Information for Oral and Poster Presentations

Plenary Lectures

Each plenary lecture will be 40 minutes including discussion. All plenary lectures will take place at the Joseph Lee Hall, 3/F, Li Dak Sum Yip Yio Chin Academic Building.

Keynote Lectures

Each keynote lecture will be 35 minutes including discussion. All keynote lectures will take place at Lecture Theatre 1 & 2 (LT1 & 2), 4/F, University Concourse, Yeung Kin Man Academic Building (YEUNG).

Invited Talks and Regular Presentations

Concurrent sessions for invited talks and oral presentations will be held at P4701, P4703, P4704 and P4302, 4/F, University Concourse, Yeung Kin Man Academic Building. Each invited talk will be 30 minutes, and each regular oral presentation will be 20 minutes including discussion. Regular presenters are recommended to limit their presentation to 15 minutes in order to allow time for answering questions from the audience. The schedule will be strictly enforced to ensure smooth transitions between sessions.

A computer running Windows 10 and Microsoft Office 2021 will be available in each presentation room. Speakers are requested to load their presentation files (either in .pptx or .pdf) to the technicians at the presentation room prior to the start of the session on the presentation day (i.e., before 13:00 on the presentation day). Please save your presentation files as: <presenting date>_<session no.>_<presentation order>_<name>.pptx (e.g., 03012023_S1_O1_Daming CHAN.pptx).

Poster presentations

Each poster presentation will be allocated a poster space of 841mm (W) x 1189mm (H). The poster number will be placed in the top corner of the board by the Conference Secretariat. Please be sure to mount your poster to the board with the number assigned to you. Adhesive tape will be provided for mounting posters.

Two separate poster sessions will be held on 3 January 2024 (Day 1, Session A) and 5 January 2024 (Day 3, Session B) at Purple Zone, 4/F, University Concourse, Yeung Kin Man Academic Building (please refer to back of the booklet for location map).

	Poster Session A	Poster Session B
Setup	16:30, 2 January 2024	16:30, 4 January 2024
Removal	12:50, 4 January 2024	12:25, 6 January 2024

Posters must be removed from the display board according to the schedule. Any poster remaining on the board after the designated time will be discarded without any notice.

Student Presentation Awards

Student presentations will be evaluated by session chairs, invited speakers, and committee members. Winners for both oral and poster presentations of the following awards will be announced and presented during the Closing Ceremony on 6 January 2024.

- Professor John Gray Memorial Award for the Best Marine Pollution Study Associated with Benthic Ecology
- Professor Rudolf Wu Award for the Best Student Presentation
- Hong Kong Marine Ecological Association (HKMEA) Award for the Best Study of Hong Kong's Marine Ecology
- Elsevier's Best Student Presentation Award

Submission of Manuscripts for Publication

Submission of manuscripts for publication in the virtual special issue of *Marine Pollution Bulletin* (with an impact factor of 5.8) will be opened in mid-January 2024 and will be closed by the end of March 2024. All submitted manuscripts will be subject to the normal refereeing procedures of the journal. The authors also have options to submit their conference papers to other sister journals, including *Marine Environmental Research* and *Regional Studies in Marine Science* during their submission.

Accepted manuscripts will be first published as a regular paper in a normal issue of *Marine Pollution Bulletin* or the named sister journal, and then will form the virtual special issue when all accepted articles are ready for assemblage. A dedicated website of Elsevier will showcase the virtual special issue. An example of the special issue of the ICEMP-9 can be viewed via this link:

<https://www.sciencedirect.com/journal/marine-pollution-bulletin/special-issue/10WX1P290WV>

Meeting with the Editors Workshop

Date & Time: 13:30-14:30, 4 January 2024 (Thursday)

Venue: Joseph Lee Hall, 3/F, Li Dak Sum Yip Yio Chin Academic Building

Speakers:

- **Inna Sokolova**, Editor-in-Chief of *Journal of Sea Research and Marine Environmental Research*, University of Rostock, Rostock, Germany
- **Huahong Shi**, Editor-in-Chief of *Regional Studies in Marine Science*, East China Normal University, Shanghai, China
- **Francois Galgani**, Editor-in-Chief of *Marine Pollution Bulletin*, Ifremer Center of the Pacific, 98719, Taravao, Tahiti, French Polynesia

10th International Conference on Marine Pollution and Ecotoxicology

Opening Ceremony

Time: 09:00-10:00, 3 January 2024 (Wednesday)

Venue: Joseph Lee Hall, 3/F, Li Dak Sum Yip Yio Chin Academic Building

President's Welcoming Remarks

Prof. Chun Sing Lee

The Provost and Deputy President, City University of Hong Kong (CityU), China

Officiating Speeches

Mr. Bing Ke

*Deputy Director-General, The Administrative Center for China's Agenda 21
The National Natural Science Foundation of China (NSFC), China*

Miss Diane Shuk Han Wong, JP

*Under Secretary for the Environment and Ecology
The Government of the Hong Kong Special Administrative Region, China*

Prof. Wenxi Zhu

*Head, IOC Sub-Commission for the Western Pacific
Decade Coordination Office for the Western Pacific and Adjacent Areas
Intergovernmental Oceanographic Commission, UNESCO*

Mr. Thomas Bell

Marine Pollution Programme Manager, Partnerships in Environmental Management for the Seas of East Asia (PEMSEA), representing Ms. Aimee Gonzales, Executive Director of PEMSEA

Opening Address on Behalf of the State Key Laboratory of Marine Pollution (SKLMP), Department of Chemistry of CityU and the Organizing Committee of ICMPE-10

Prof. Kenneth Mei Yee Leung, JP

*Chairman, Organizing Committee of ICMPE-10
Director of SKLMP and Chair Professor of Chemistry Department, CityU, China*

ICMPE-10 Conference Opening cum Plaque Unveiling Ceremony for the UNESCO- IOC Regional Training and Research Centre on Coastal Contaminant Monitoring and Marine Innovative Technologies (RTRC—Coastal COMMIT)

SKLMP of CityU has been entrusted by the UNESCO-IOC Sub-Commission for the Western Pacific to host the Coastal-COMMIT Centre since April 2023. The Centre aims to strengthen the monitoring capacity for marine pollution in the Western Pacific region, promote the development of marine innovation technologies, and facilitate international research collaboration. The establishment of the Centre will also promote Hong Kong's integration into national development and support Hong Kong's goal of becoming an international innovation and technology hub. More details about the Coastal-COMMIT Centre are available at: <https://ioc-westpac.org/regional-pilot-scientific-diving-training-conducted/> and <https://shorturl.at/pAVZ6>

Conference Schedule

Day 0: 2 January 2024 (Tuesday)	
16:30	Registration (Lecture Theatre 1, 4/F, YEUNG)
18:30	Close

Abstracts of presentations are available at: <https://www.icmpe-sklmp.com/abstract>



Invited talks Student presentations

Day 1: 3 January 2024 (Wednesday)																	
8:30	Registration (Joseph Lee Hall, 3/F, LI)																
9:00	Opening Ceremony & Group Photo Taking																
10:00	Tea Break																
Plenary Lectures <i>SChr: Kenneth Leung & Stephen Hawkins</i>																	
10:20	PL 1: Prof. Minhan Dai (<i>Xiamen University, China</i>) Persistent Eutrophication and Hypoxia in the Coastal Ocean																
11:00	PL 2: Prof. Elsie Sunderland (<i>Harvard University, USA</i>) [online] How Much Do We Understand about the Ocean's Role as the Terminal Sink for Anthropogenic Chemicals?																
11:40	PL 3: Dr. Wenxi Zhu (<i>Intergovernmental Oceanographic Commission of UNESCO</i>) Advance Marine Science Development and Cooperation for Peace and Sustainable Development																
12:20	Lunch (AC2 Canteen, 3/F, LI) & Poster Presentation A (Purple zone, 4/F, YEUNG)																
Oral Presentation																	
	<table border="1"> <thead> <tr> <th>P4701, YEUNG</th> <th>P4703, YEUNG</th> <th>P4704, YEUNG</th> <th>P4302, YEUNG</th> </tr> </thead> <tbody> <tr> <td><i>Session 1 Plastics (1)</i></td> <td><i>Session 2 Contaminants of Emerging Concern (1)</i></td> <td><i>Session 3 Legacy Pollutants (1)</i></td> <td><i>Session 4 Technology (1)</i></td> </tr> <tr> <td><i>SChr: Jinping Cheng</i></td> <td><i>SChr: Henry He</i></td> <td><i>SChr: Patrick Lee</i></td> <td><i>SChr: Benoit Thibodeau</i></td> </tr> <tr> <td>I1 Youn Joo An <i>Konkuk University, Republic of Korea</i> Effects of irregular and fibril shaped microplastics on <i>Artemia franciscana</i>: size and shape-dependent toxicity</td> <td>I5 Xinhong Wang <i>Xiamen University, China</i> Decadal historical changes of legacy and emerging per- and polyfluoroalkyl substances in sediments from the marginal seas of China: growing usage of emerging PFAS</td> <td>I9 Ichiro Takeuchi <i>Ehime University, Japan</i> Transcriptome analysis of hermatypic coral <i>Acropora tenuis</i> and its symbiotic dinoflagellates exposed to anthropogenic chemicals</td> <td>I13 Chun Kit Kwok <i>City University of Hong Kong, Hong Kong</i> Development of novel aptasensor for the detection of enrofloxacin</td> </tr> </tbody> </table>	P4701, YEUNG	P4703, YEUNG	P4704, YEUNG	P4302, YEUNG	<i>Session 1 Plastics (1)</i>	<i>Session 2 Contaminants of Emerging Concern (1)</i>	<i>Session 3 Legacy Pollutants (1)</i>	<i>Session 4 Technology (1)</i>	<i>SChr: Jinping Cheng</i>	<i>SChr: Henry He</i>	<i>SChr: Patrick Lee</i>	<i>SChr: Benoit Thibodeau</i>	I1 Youn Joo An <i>Konkuk University, Republic of Korea</i> Effects of irregular and fibril shaped microplastics on <i>Artemia franciscana</i> : size and shape-dependent toxicity	I5 Xinhong Wang <i>Xiamen University, China</i> Decadal historical changes of legacy and emerging per- and polyfluoroalkyl substances in sediments from the marginal seas of China: growing usage of emerging PFAS	I9 Ichiro Takeuchi <i>Ehime University, Japan</i> Transcriptome analysis of hermatypic coral <i>Acropora tenuis</i> and its symbiotic dinoflagellates exposed to anthropogenic chemicals	I13 Chun Kit Kwok <i>City University of Hong Kong, Hong Kong</i> Development of novel aptasensor for the detection of enrofloxacin
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I1 Youn Joo An <i>Konkuk University, Republic of Korea</i> Effects of irregular and fibril shaped microplastics on <i>Artemia franciscana</i> : size and shape-dependent toxicity	I5 Xinhong Wang <i>Xiamen University, China</i> Decadal historical changes of legacy and emerging per- and polyfluoroalkyl substances in sediments from the marginal seas of China: growing usage of emerging PFAS	I9 Ichiro Takeuchi <i>Ehime University, Japan</i> Transcriptome analysis of hermatypic coral <i>Acropora tenuis</i> and its symbiotic dinoflagellates exposed to anthropogenic chemicals	I13 Chun Kit Kwok <i>City University of Hong Kong, Hong Kong</i> Development of novel aptasensor for the detection of enrofloxacin														
14:00																	

14:30	<p>O1 Yifan Zheng <i>East China Normal University, China</i></p> <p>Colonization of organisms on the Styrofoam floats</p>	<p>O21 Chong Chen <i>City University of Hong Kong</i></p> <p>The latest progress and future prospects of the Global Estuaries Monitoring Programme</p>	<p>O41 Frank Paolo Jay B. Albarico <i>National Kaohsiung University of Science and Technology</i></p> <p>Seasonal dynamics of PAHs in estuarine microplankton from an anthropic northeastern South China Sea region</p>	<p>O61 Dokyun Kim <i>Hanyang University, South Korea</i></p> <p>Integrated approach for trophic position of black-tailed gull (<i>Larus crassirostris</i>) eggs over a decade: Combining stable isotopes of amino acids and fatty acids</p>
14:50	<p>O2 Yingyu Bao <i>City University of Hong Kong, Hong Kong</i></p> <p>Deciphering the ecological roles of the plastisphere in urban rivers in Hong Kong</p>	<p>O22 Adam Sokółowski <i>University of Gdańsk, Poland</i></p> <p>Biomagnification of pharmaceuticals in the arctic food web</p>	<p>O42 Yunchi Zhou <i>Beihang University, China</i></p> <p>Using machine learning to predict adverse effects of metallic nanomaterials to various aquatic organisms</p>	<p>O62 Kyu-Young Shim <i>Incheon National University, South Korea</i></p> <p>Hypoxia-associated seasonal variations of zooplankton community in Jinhae Bay, South Korea: A case study through environmental DNA metabarcoding</p>
15:10	<p>O4 Marie Jean Sylvio Perrine <i>University of Mauritius, Republic of Mauritius</i></p> <p>Plastics macrolitter litter around Rodrigues Island, Southwest Indian Ocean: a first assessment</p>	<p>O23 Linjie Jin <i>City University of Hong Kong, Hong Kong</i></p> <p>Study on enantioselective uptake and purification kinetics of metoprolol and venlafaxine in marine medaka</p>	<p>O43 Matthew Long-Hei Cheng <i>The Chinese University of Hong Kong, Hong Kong</i></p> <p>From valley to plain: Distribution of mercury along the freshwater to saltwater continuum in a rural area of Hong Kong</p>	<p>O63 Linus Shing Him Lo <i>The Education University of Hong Kong, Hong Kong</i></p> <p>Monitoring of coastal environment using environmental DNA</p>
15:30	<p>Cancelled</p>	<p>O24 Ying Wang <i>Beihang University, China</i></p> <p>Using machine learning to predict adverse effects of pollutants to various aquatic organisms</p>	<p>O44 Martin Tsui <i>The Chinese University of Hong Kong, Hong Kong</i></p> <p>Review of mercury pollution research in Southeast Asia marine environments</p>	<p>O64 Meihong Zhao <i>Hong Kong Baptist University, Hong Kong</i></p> <p>Gap analysis of DNA barcoding database of Hong Kong's marine biota</p>
15:50	Tea Break and Poster Presentation A (Purple zone, 4/F, YEUNG)			
Keynote Lectures (Lecture Theatre 1, 4/F, YEUNG) <i>SChr: Viet Ha Dao & Bryan Brooks</i>				
16:30	<p>K1: Prof. Jianping Gan (<i>The Hong Kong University of Science and Technology, Hong Kong</i>) Paradigm of Coastal Hypoxia off Hong Kong: Challenges of Coupled Physics-Biogeochemistry</p>			
17:05	<p>K2: Prof. Rencheng Yu (<i>Institute of Oceanology, CAS, China</i>) Status and Research Perspectives of Harmful Algal Blooms in China</p>			
17:40	<p>K3: Dr. Wentao Wang & Miss Xiaomeng Jie (<i>The Administrative Center for China's Agenda 21</i>) Advances and Prospects of Science and Technology Innovation for Marine Environmental Protection in China</p>			
18:00	Close			

Invited talks

Student presentations

Day 2: 4 January 2024 (Thursday)				
8:30	Registration (Lecture Theatre 1, 4/F, YEUNG)			
<p align="center">Keynote Lectures <i>SChr: Jing You & Henry He</i></p>				
9:00	K4: Prof. Nobuyoshi Yamashita (<i>National Institute for Advanced Industrial Science and Technology, Japan</i>) "CAR-PFAS Japan" to Improve PFAS Action Plan in Japan – Regenesis from the Lost Fifteen Years			
9:35	K5: Prof. Stephen Hawkins (<i>University of Southampton, UK</i>) Revisiting Millennial Forecasts of Impacts and Status of Rocky Shores in 2025: Did We Do Well?			
10:10	K6: Prof. Cao Ling (<i>Xiamen University, China</i>) Blue Food Assessment			
10:45	Tea Break			
<p align="center">Keynote Lectures <i>SChr: Jing You & Henry He</i></p>				
11:05	K7: Prof. Daniel Schlenk (<i>University of California, USA</i>) Impacts of Climate Change on Pesticide Toxicity in Coastal Environments			
11:40	K8: Prof. Inna Sokolova (<i>University of Rostock, Germany</i>) Bioenergetics Approaches to Assess the Mechanisms and Effects of Multiple Stressors on Marine Organisms			
12:15	K9: Prof. Jae-Seong Lee (<i>Sungkyunkwan University, South Korea</i>) Host-microbiota interaction in microfibers and freshwater acidification-exposed freshwater water flea <i>Daphnia magna</i>			
12:50	Lunch (AC2 Canteen, 3/F, LI)			
13:30	Meeting with the Editors Workshop (13:30-14:30, Joseph Lee Hall, 3/F, LI)			
Oral Presentation				
	P4701, YEUNG	P4703, YEUNG	P4704, YEUNG	P4302, YEUNG
	Session 5 Plastics (2)	Session 6 Contaminants of Emerging Concern (2)	Session 7 Legacy Pollutants (2)	Session 8 Technology (2)
	<i>SChr:</i> Chengjun Sun & James Fang	<i>SChr:</i> Xinhong Wang & Yuefei Ruan	<i>SChr:</i> Ichiro Takeuchi & Patrick Lee	<i>SChr:</i> Chun Kit Kwok & Benoit Thibodeau
14:40	I2 James Fang <i>The Hong Kong Polytechnic University, Hong Kong</i> Impact of microplastics on growth and behaviour of the juvenile tri-spine horseshoe crab <i>Tachypleus tridentatus</i>	I6 Yuefei Ruan <i>City University of Hong Kong, Hong Kong</i> Temporal trends and suspect screening of halogenated flame retardants and their metabolites in blubbers of cetaceans stranded in Hong Kong waters	I10 Patrick Lee <i>City University of Hong Kong, Hong Kong</i> A metagenomics-based microbial surveillance framework for assessing cumulative anthropogenic impacts on estuarine benthic ecosystems	I14 Benoit Thibodeau <i>The Chinese University of Hong Kong, Hong Kong</i> Unraveling the nexus of carbon, oxygen, and nutrients dynamics under anthropogenic pressure in Hong Kong and the Greater Bay Area

15:10	<p>O5 Yoseop Lee <i>Sungkyunkwan University, South Korea</i></p> <p>Combined exposure to hypoxia and nanoplastics leads to oxidative stress-mediated synergistic effects in the water flea <i>Daphnia magna</i></p>	<p>O25 Qi Wang <i>City University of Hong Kong, Hong Kong</i></p> <p>Legacy and emerging per- and polyfluoroalkyl substances from eight main outlets of the Pearl River Delta, China: Phase distribution, temporal variation, and environmental stress</p>	<p>O45 Jiezhong Mo <i>Shantou University, China</i></p> <p>Environmental benzo[a]pyrene induces multigenerational osteotoxicity in medaka fish</p>	<p>O65 How Chun Ming <i>City University of Hong Kong, Hong Kong</i></p> <p>Optimization of environmental DNA methods for fish diversity assessment in estuarine and oceanic water: Primers, volumes, and replicates</p>
15:30	<p>O6 Gopi Narayanan Koilpitchai <i>Indian Institute of Science Education and Research Kolkata, India</i></p> <p>Influence of surface-modified nanoplastics on accumulation and toxicity of tetracycline in freshwater microalgae (<i>Chlorella vulgaris</i>) in the presence of humic acid</p>	<p>O26 Xiaoyu Xu <i>City University of Hong Kong, Hong Kong</i></p> <p>Acute toxicity and risk assessment of common tire compounds, 6PPD and 6PPD-Q, in the marine environment</p>	<p>O46 Shaoyi Wang <i>The Chinese University of Hong Kong, Hong Kong</i></p> <p>Variations of methylmercury in a mangrove wetland sediments: Insights from subtropical ecosystems in Hong Kong</p>	<p>O66 Jack Chi-Ho Ip <i>Lingnan University, Hong Kong</i></p> <p>Bottom trawling and multi-marker eDNA metabarcoding surveys reveal high diversity of vertebrate and crustacean communities in an urbanized subtropical estuary</p>
15:50	<p>O7 Yao Li <i>Beihang University, China</i></p> <p>Aging effects of titanium dioxide on Cu toxicity to <i>Daphnia magna</i>: exploring molecular docking and significance of surface properties</p>	<p>O27 Mungi Kim <i>Chungnam National University, South Korea</i></p> <p>Distribution and bioaccumulation characteristics of lipophilic marine biotoxins and associated microalgae in South Sea Coast of Korea</p>	<p>O47 Ong Meng Chuan <i>Universiti Malaysia Terengganu, Malaysia</i></p> <p>Level of heavy metals in marine stingrays (Chondrichthyes: Dasyatidae) landed from Johor Waters</p>	<p>O67 Rongjie Zhao <i>City University of Hong Kong, Hong Kong</i></p> <p>Environmental DNA reveal conservation effects upon fish communities of marine protected areas in Hong Kong</p>
16:10	<p>O8 Emmanuel Charles Partheeban <i>Bharathidasan University, India</i></p> <p>Elucidating microplastic ingestion and risks in marine biota from anthropogenically-degraded coastal habitats in Tamil Nadu, Southern India</p>	<p>O28 Paulina Gozdzik <i>Medical University of Gdansk, Poland</i></p> <p>Exposure to norfluoxetine, an endocrine disrupting compound, leads to alterations in several genes expression and transcriptomic profiles in the Baltic blue mussel <i>Mytilus trossulus</i></p>	<p>O48 Eunjin Byeon <i>Sungkyunkwan University, South Korea</i></p> <p>Toxicity, speciation of inorganic arsenics and its adverse effects on <i>in vivo</i> endpoints and oxidative stress in the marine medaka <i>Oryzias melastigma</i></p>	<p>O68 Xiaohao Sun <i>The Hong Kong Polytechnic University, China</i></p> <p>Biominalization to prevent microbially induced corrosion on concrete for sustainable marine infrastructure</p>
16:30	Tea Break			
16:50	<p>O9 Julie Mondon <i>Deakin University, Australia</i></p> <p>Quantifying the efficacy of microplastics capture in physically-screened treated wastewater</p>	<p>O29 Yichi Chen <i>National University of Tainan, Taiwan</i></p> <p>Toxicokinetics of oseltamivir ethylester and oseltamivir carboxylate in <i>Daphnia magna</i></p>	<p>O49 Rui Wang <i>Tongji University, China</i></p> <p>Transportation, transformation and bioaccumulation of mercury in the Yangtze River estuary and the adjacent East China Sea</p>	<p>O69 Zhiyuan Zeng <i>City University of Hong Kong, Hong Kong</i></p> <p>Simultaneous electrochemical exfoliation and covalent functionalization of MoS₂ membrane for water purification</p>

17:10	<p>O10 Sushma Mattan Moorgawa <i>(University of Mauritius, Mauritius)</i></p> <p>A first report of meso-litter abundance, density, composition, type, and colour along sandy beaches: the case of Rodrigues Island, South-West Indian Ocean</p>	<p>O30 Sori Mok <i>Hanyang University, Republic of Korea</i></p> <p>Severe contamination and time trend of neutral per- and polyfluoroalkyl substances (n-PFAS) in sediments from Lake Shihwa, Korea: source and effectiveness of regulatory action</p>	<p>O50 Ziwei Yao <i>Ministry of Ecology and Environment, China</i></p> <p>Occurrence of antibiotics and antibiotic resistance genes in water and sediment of the lower reaches of typical rivers in Bohai Rim Basin</p>	<p>O70 Wing Yin Mo <i>Hong Kong Metropolitan University, Hong Kong</i></p> <p>Municipal sewage treatment by a salt pan colonized mangrove</p>
17:30	<p>O11 Changchao Li <i>The Hong Kong Polytechnic University, Hong Kong</i></p> <p>Ecology and risks of the global plastisphere as a newly expanding microbial habitat</p>	<p>O31 Yingying Qian <i>Xiamen University of Technology, China</i></p> <p>Pollution characteristics and source analysis of perfluoroalkyl compounds in typical estuary areas of Fujian Province</p>	<p>O51 Shaopeng Xu <i>City University of Hong Kong, Hong Kong</i></p> <p>Environmental behavior and pollution status of tire additives in surface water</p>	<p>O71 Larsen Alessandro <i>UCSI University, Malaysia</i></p> <p>Absorb + degrade: A novel oil spill mitigation method using <i>Acinetobacter venetianus</i> immobilized on PVDF membranes incorporated with cellulose triacetate</p>
17:50	<p>O12 Yan Zhang <i>Nanjing University, China</i></p> <p>Research on the environmental behaviour and ecotoxicology of microplastics based on data-driven methods</p>	<p>O32 Chang He <i>The Hong Kong Polytechnic University, Hong Kong</i></p> <p>Risk assessment of e-waste contaminants – liquid crystal monomers released by dredging sediment plumes in PRE</p>	<p>O52 Alex Chow <i>The Chinese University of Hong Kong, Hong Kong</i></p> <p>Unique biogeochemical characteristics in ghost forests: Influences of sea level rise on coastal ecosystems</p>	<p>O72 Yuen Ken Chue Ho <i>The Hong Kong Polytechnic University, Hong Kong</i></p> <p>Assessing the biology of coral polyps using 3D visualization techniques</p>
18:10	Close			

Invited talks

Student presentations

Day 3: 5 January 2024 (Friday)				
8:30	Registration (Lecture Theatre 1, 4/F, YEUNG)			
<p align="center">Keynote Lectures <i>SChr: Inna Sokolova & James Fang</i></p>				
9:00	<p align="center">K10: Prof. Jongseong Khim (<i>Seoul National University, Korea</i>) Overview of Korean Tidal Flats: Biodiversity and Ecosystem Services</p>			
9:35	<p align="center">K11: Prof. Xiaowei Zhang (<i>Nanjing University, China</i>) Holistic Impact Evaluation of Human Activities on the Coastal Fish Biodiversity in the Chinese Coastal Environment</p>			
10:10	Tea Break			
<p align="center">Keynote Lectures <i>SChr: Inna Sokolova & James Fang</i></p>				
10:40	<p align="center">K12: Prof. Chengjun Sun (<i>Ministry of Natural Resources, China</i>) Indicators of Marine Microplastic Pollution</p>			
11:15	<p align="center">K13: Prof. Wenxiong Wang (<i>City University of Hong Kong, Hong Kong</i>) Microplastic (Eco)Toxicology in Marine Environment: Where Are We Now?</p>			
11:50	<p align="center">K14: Prof. Huahong Shi (<i>East China Normal University, China</i>) Mechanisms and Control Measures for the Release of Microplastics from Mariculture</p>			
12:25	Lunch (AC2 Canteen, 3/F, LI) & Poster Presentation B (Purple zone, 4/F, YEUNG)			
13:05	<p align="center">Global Estuaries Monitoring (GEM) Programme Workshop (13:05-14:00, Lecture Theatre 1, 4/F, YEUNG)</p>			
Oral Presentation				
	P4701, YEUNG	P4703, YEUNG	P4704, YEUNG	P4302, YEUNG
	<i>Session 9 Plastics (3)</i>	<i>Session 10 Contaminants of Emerging Concern (3)</i>	<i>Session 11 Ecotoxicology (1)</i>	<i>Session 12 Restoration (1)</i>
	<i>SChr: Huahong Shi</i>	<i>SChr: Yuefei Ruan</i>	<i>SChr: Zhang Xiaowei</i>	<i>SChr: Apple Chui</i>
14:00	<p>I3 Jinping Cheng <i>The Education University of Hong Kong, Hong Kong</i> Selective enrichment of bacterial pathogens within plastsphere biofilms</p>	<p>I7 Henry He <i>City University of Hong Kong, Hong Kong</i> Liquid crystal monomers: From indoor to marine environments</p>	<p>I11 Lianguo Chen <i>Institute of Hydrobiology, Chinese Academy of Sciences, Wuhan, China</i> A new mechanism of reproductive endocrine disruption based on isothiazolinones</p>	<p>I15 Jianwen Qiu <i>Hong Kong Baptist University, Hong Kong</i> Community baseline, threats, winners, and losers of Hong Kong's urban corals</p>

14:30	<p>O13 Lixia Deng <i>Hong Kong University of Science and Technology, Hong Kong</i></p> <p>Nanoplastics impair growth and nitrogen fixation of marine nitrogen-fixing cyanobacteria</p>	<p>O33 Yi Yang <i>City University of Hong Kong, Hong Kong</i></p> <p>Addressing an imminent problem presented by a new class of pollutants: Chemicals with epigenetic and transgenerational effects</p>	<p>O53 Hyeong-Gi Kim <i>Chungnam National University, South Korea</i></p> <p>Spatiotemporal variability on local-regional scale in subtidal meiofaunal and macrofaunal assemblages along the southern coast of Korea</p>	<p>O73 Chun Ching Wong <i>The Hong Kong Polytechnic University, Hong Kong</i></p> <p>Effects of surface topography and surface material on coral settlement success</p>
14:50	<p>O14 Mengyang Liu <i>City University of Hong Kong, Hong Kong</i></p> <p>Weathering of microplastics revealed by the traditional and novel spectroscopy approaches</p>	<p>O34 Celia Schunter <i>The University of Hong Kong, Hong Kong</i></p> <p>Transgenerational plasticity and inheritance to emerging contaminants and environmental change</p>	<p>O54 Jian Han <i>Institute of Hydrobiology, CAS, China</i></p> <p>Lipid metabolic disruption of a new brominated flame retardant TBPH in zebrafish</p>	<p>O74 Billy C.T. Cheung <i>Chinese University of Hong Kong, Hong Kong</i></p> <p>Acquisition of symbiodiniaceae in <i>Acropora tumida</i> juveniles under future warming scenarios</p>
15:10	<p>O15 Yejiao Sun <i>(Hainan University, China)</i></p> <p>Polystyrene micro-/nanoplastics affected the nutritional quality of <i>Chlamys farreri</i> through disturbing the function of gills and physiological metabolism</p>	<p>O35 Lihua Yang <i>Institute of Hydrobiology, CAS, China</i></p> <p>Multi- and transgenerational toxicity in zebrafish upon life cycle exposure to decabromodiphenyl ethane</p>	<p>O55 Ying Wang <i>Ministry of Ecology and Environment, China</i></p> <p>Toxic effects of single and combined exposures to nanoplastics and bisphenol a in developing medaka <i>Oryzias melastigma</i></p>	<p>O75 Christophe Minier <i>Normandie University, France</i></p> <p>Deriving environmental quality standard considering endocrine disruption</p>
15:30	<p>O16 Yi Cong <i>Ministry of Ecology and Environment, China</i></p> <p>Polystyrene and polyethylene terephthalate microplastics alter bioavailability and toxicity of cadmium in the polychaete <i>Perinereis aibuhitensis</i></p>	<p>O36 Yetong Shao <i>City University of Hong Kong, Hong Kong</i></p> <p>Temporal variations of chlorinated paraffins in the sediment cores from the Pearl River Estuary and Hong Kong</p>	<p>O56 Duck Hyun Kim <i>Sungkyunkwan University, South Korea</i></p> <p>The 22 chromosome-level genome assembly of the brackish water flea <i>Diaphanosoma celebensis</i>: comparative genome analysis and their global methylation patterns for epigenetic study</p>	<p>O76 Thomas Bell <i>Partnerships in Environmental Management for the Seas of East Asia</i></p> <p>Citizen science as part of long-term monitoring of marine plastic pollution</p>
15:50	Tea Break & Poster Presentation B (Purple zone, 4/F, YEUNG)			
Keynote Lectures (Lecture Theatre 1, 4/F, YEUNG) <i>SChr: Daniel Schlenk & Leo Chan</i>				
16:30	<p>K15: Prof. Dongyan Liu (<i>East China Normal University, China</i>) The Cause, Formation and Prediction of Green Tide in the Yellow Sea</p>			
17:05	<p>K16: Prof. Viet Ha Dao (<i>Institute of Oceanography, VAST, Viet Nam</i>) Ciguatoin Contamination Raising the Risk to Seafood Safety in Viet Nam</p>			
17:40	Close			
19:00	Banquet			

Invited talks

Student presentations

Day 4: 6 January 2024 (Saturday)				
Keynote Lectures (Lecture Theatre 2, 4/F, YEUNG) <i>SChr: Francois Galgani & Yuefei Ruan</i>				
9:00	K17: Prof. Grant Hose (Macquarie University, Australia) How and Why Groundwater Matters for the Marine Environment			
9:35	K18: Prof. Hyo-Bang Moon (Hanyang University, South Korea) A Paradigm Shift in Environmental Monitoring and Assessment of Organic Contaminants: Organophosphate Flame Retardants			
10:10	Tea Break			
Keynote Lectures <i>SChr: Francois Galgani & Yuefei Ruan</i>				
10:40	K19: Prof. Bryan Brooks (Baylor University, USA) Towards Precision Ecotoxicology: Integrating One Health during Study of Urbanizing Aquatic Systems			
11:15	K20: Prof. Jing You (Jinan University, China) Event Driven Taxonomy: AI in Identifying Causative Contaminants in Chemical Mixtures			
11:50	K21: Prof. Jinhee Choi (University of Seoul, South Korea) Artificial Intelligence - Based Toxicity Prediction of Environmental Chemicals and Their Application to Adverse Outcome Pathway Development			
12:25	Lunch (AC2 Canteen, 3/F, LI)			
Oral Presentation				
	P4701, YEUNG	P4703, YEUNG	P4704, YEUNG	P4302, YEUNG
	<i>Session 13 Harmful Algae Blooms</i>	<i>Session 14 Climate Changes</i>	<i>Session 15 Ecotoxicology (2)</i>	<i>Session 16 Restoration (2)</i>
	<i>SChr: Yan Meng</i>	<i>SChr: Stephen Hawkins</i>	<i>SChr: You Jing</i>	<i>SChr: Jianwen Qiu</i>
14:00	I4 Fred Wang Fat Lee <i>Hong Kong Metropolitan University, Hong Kong</i> Possible role of marine bacteria in modulating harmful algal blooms of <i>Karenia mikimotoi</i>	I8 Moriaki Yasuhara <i>The University of Hong Kong, Hong Kong</i> Past and future tropical marine biodiversity hotspots	I12 Ling Jin <i>The Hong Kong Polytechnic University, Hong Kong</i> Anthropogenic impacts on coastal bacteriome and antibiotic resistome	I16 Apple PY Chui <i>The Chinese University of Hong Kong, Hong Kong</i> Restoration of degraded Hong Kong coral habitats using multiple active coral restoration approaches
14:30	O17 Liu Xintong <i>The Hong Kong Polytechnic University, Hong Kong</i> How much do commonly monitored organic contaminants explain species-specific in vitro cytotoxicity of seawater?	O37 Xue Wang <i>City University of Hong Kong, Hong Kong</i> Efficient E-fuel electrosynthesis from carbon dioxide	O57 Chenyang Ji <i>Zhejiang Shuren University, China</i> Identification of dioxin-like effects of polyhalogenated carbazoles (PHCZs) and potential toxic mechanisms	O77 Bayden Russell <i>The University of Hong Kong, Hong Kong</i> Oyster habitats enhance denitrification in a heavily degraded and polluted marine system

14:50	<p>O18 Veronica T.T. Lam <i>City University of Hong Kong, Hong Kong</i></p> <p>Diversity of benthic dinoflagellates in Hong Kong waters and the impact of environmental changes on growth and toxicity of local dinoflagellate species</p>	<p>O38 Min-Sub Kim <i>Sungkyukwan University, South Korea</i></p> <p>Epigenetic plasticity enables copepods to cope with ocean acidification</p>	<p>O58 Yide He <i>Nanjing Tech University, China</i></p> <p>Development and application of fast thyroid disrupting screen assay</p>	<p>O78 Yali Huang <i>City University of Hong Kong, Hong Kong</i></p> <p>Can money make ghosts grind? The long-term effectiveness of payment for ecosystem services</p>
15:10	<p>O19 Meng Yan <i>City University of Hong Kong, Hong Kong</i></p> <p>Temperature effects on physiology, transcription, and toxin production of the benthic dinoflagellate <i>Gambierdiscus belizeanus</i></p>	<p>O39 Linxuan Ma <i>Ocean University of China, China</i></p> <p>Trends in projected body temperature of intertidal species in East Asia</p>	<p>O59 Euihyeon Lee <i>Korea Institute of Ocean Science and Technology, South Korea</i></p> <p>An integrated transcriptome-microbiome host relationship associated with paraben toxicity in the brackish water flea <i>Diaphanosoma celebensis</i></p>	<p>O79 Yaqin Liao <i>Ministry of Ecology and Environment, China</i></p> <p>Study on effectiveness evaluation of restoration damaged coastal shoreline: Cases study of Riyue Bay and Kaozhouyang</p>
15:30	<p>O20 Xitong Fu <i>City University of Hong Kong, Hong Kong</i></p> <p>Exploration of iron addition as a mitigation measure for the detrimental effects of sargassum blooms on red mangroves wetlands (<i>Rhizophora mangle</i>) in a lab environment</p>	<p>O40 Bandita Badakumar <i>Bhabha Atomic Research Centre, India</i></p> <p>Efficacy of active bromide as targeted supplementary biocide for combating green mussels fouling in cooling water system of a tropical power station</p>	<p>O60 You Zhang <i>Beihang University, China</i></p> <p>Mechanism of hydrogen nanobubbles to alleviate the oxidative stress of copper on <i>Tetrahymena thermophila</i></p>	<p>O80 Stan Shea <i>Hong Kong Marine Protection Alliance, Hong Kong</i></p> <p>Spokesperson of the Hong Kong Marine Protection Alliance</p>
15:50	Tea Break			
<p>Keynote Lectures (Lecture Theatre 2, 4/F, YEUNG) <i>SChr: Bruce Richardson & Grant Hose</i></p>				
16:20	<p>K22: Prof. Francois G. Galgani (<i>IFREMER, French Polynesia</i>) Marine Litter, from Science to Policies</p>			
16:55	<p>K23: Prof. Kenneth Mei Yee Leung (<i>City University of Hong Kong, Hong Kong</i>) Progress and Challenges in Environmental Analysis, Assessment, and Remediation of Chemical Pollution: Navigating Towards a Cleaner Future</p>			
17:30	Student Award Presentation & Closing Ceremony			
18:00	Close			



Who We Are?

Launched in 2022, HKMPA is the first collective in Hong Kong focusing on marine conservation and sustainability.

HKMPA's Mission:

The HKMPA is committed to:

- 1) **Preserve Hong Kong Waters** - To widen the coverage of MPAs by influencing local marine policy planning.
- 2) **Enhance Public Awareness** - To arouse public awareness on marine sustainability and promote marine conservation.

Our Members:



And Dr. Andy Cornish, Ms. Angel Lam, Dr. Apple Chui, Mr. Charles Goddard, Mr. Harry Chan Tin-Ming, Mr. Joshua Wong, Prof. Ka Hou Chu, Ms. Lindsay Porter, Ms. Marcy Trent Long, Miss. Natalie Chung, Ms. Smriti Safaya, Ms. Suzanne Gendron, Dr. Yannick Kuehl, Dr. Yvonne Sadovy

Our 3 Key Asks:

- 1) Immediately gazetting of 10% local waters as MPAs;
- 2) Gazetting 30% of local waters as MPAs by 2030;
- 3) Increasing the percentage of no-take zones to 20% within all designated MPAs.

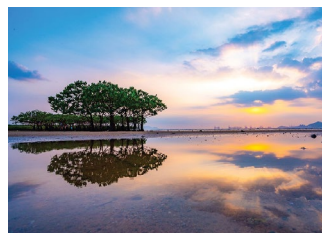
These requests have been submitted to the HKSAR government right after we launched.

HKMPA, in order to make our requests feasible and achievable, we have prioritised 3 sites of the suggested Marine Protected Area:

- 1) Shui Hau (Marine Park);
- 2) Pak Nai and nearby sites (Coastal Protection Zone);
- 3) Port Shelter (Fisheries Protection Area)



Shui Hau, a large expanse of sheltered, intertidal sandy-mudflat, which is rare in Hong Kong, it nurtures juvenile horseshoe crabs before they migrate to the sea. It is also an important stopover site for the survival of over 20 species of migratory shorebirds.



Pak Nai, a famous tourist spot with diverse types of coastal habitats and endangered species, is an essential feeding ground for horseshoe crabs, black-faced spoonbills, and other waterbirds. A total of 238 bird species visiting Pak Nai over the years demonstrates high bio-diversity of the site.



Port Shelter, as one of the best dive sites in Hong Kong, is famous for its high diversity of coral and marine fish species. It holds significant recreational and ecological values, providing important habitat for the ecosystem in Hong Kong.

Poster Presentation A, Purple zone, 4/F, YEUNG (3 January 2024)

Poster No.	Author	Title
Plastics		
P1	Lei Li	Size-dependent deleterious effects on sperm motility by microplastics of different sizes
P2	Ming-Yih Leu	Evaluation of the microplastic ingestion in larval fish in the coastal waters of Taiwan: field and laboratory studies
P3	Young-Mi Lee	Isolation and identification of putative expanded polystyrene-degrading bacteria from the gut of <i>Ligia cinerascens</i> (Isopoda: Ligidae)
P4	Young-Mi Lee	Size-dependent toxic effects of polypropylene microplastics on reproduction, antioxidant system, and metabolomic perturbation of monogonont rotifer <i>Brachionus koreanus</i>
P5	Young-Mi Lee	Effects of foods on size- and shape-dependent toxicity of microplastics on two marine zooplanktons: Ingestion of plastics and acute toxicity
P6	Young-Mi Lee	Metagenomic analysis of sea slater <i>Ligia</i> gut microbiome collected from the coastal region in South Korea
P7	Long Chun Mou	Enhancing beach litter surveillance in Hong Kong waters through aerial drone monitoring
P8	Mengyang Liu	Establishing baselines and assessing risk: Documenting the composition of microplastics in Indian Ocean pygmy blue whale faecal samples
P9	Xiaoyu Xu	Comparisons between the ingestion and rejection of microplastic beads by burrowing clams, <i>Meretrix meretrix</i> and <i>Paphia undulata</i>
P10	Te Hao Chen	Effects of surgical masks with different weathering conditions on behavior and growth of white leg shrimp (<i>Litopenaeus vannamei</i>)
P11	Hoi Man Liu	Daily tidal influence on microplastic distribution in typical tidal river
P12	Hoi Man Liu	PFASs absorption on the microplastic particles in the Tolo Harbor region
P13	Hoi Man Liu	The influence of rainfall events on microplastic pollution in tidal and non-tidal rivers in Hong Kong
P14	In-Cheol Yeo	Insights into tissue-specific bioaccumulation of nanoplastics in marine medaka as revealed by a stable carbon isotopic approach
P15	Shengnan Gao	Bioaccumulation and toxicity of nanoplastics to fish medaka under the context of global warming
P16	Tae Lim Kima	Effect of marine debris on the intertidal benthic assemblages on the southern coast of Korea
P17	Karen Tagulao	Abundance and distribution of microplastics in the coastal environments of Macao: analysis of mangrove and non-mangrove areas
P18	Yixuan Wang	Ingestion of microplastics in barnacle <i>Amphibalanus amphitrite</i> varied with concentration, size and form of microplastics but not the presence of biofilm
P19	Ziyi Lin	Microplastics from face mask impairs sperm motility
P20	Jeong-In Park	Ecotoxicological assessment of biodegradable plastics: effects on <i>Skeletonema costatum</i> and <i>Vibrio fischeri</i>
Contaminants of emerging concern		
P21	Anna Hallmann	Norfluoxetine, a new EDC (endocrine-disrupting chemical) in the marine environment, disrupts the reproductive physiology of Baltic mussels

P22	Hyo-Bang Moon	Contamination of legacy and alternative plasticizers in sediments from artificial lakes and coastal waters near high-tech industrial complexes: occurrence, dilution effect, and ecological risk
P23	Jeong-Hwa Kim	In vitro impacts of bisphenol a on immune functions of primary cultured hemocyte of Pacific abalone (<i>Haliotis discus hannai</i>)
P24	Ying Wang	Preliminary results for the toxicity of artificial turf infill materials to marine species
P25	Huiju Lin	Retrospective identification of hydrophobic organic compounds in suspended particles of flowback and produced waters using gas chromatography high-resolution mass spectrometry
P26	Qianqian Jin	Liquid crystal monomers in ventilation and air conditioning dust: indoor characteristics, sources analysis and toxicity assessment
P27	Xuemei Mao	Discharge of antibiotic resistance genes (ARGs) from wastewater treatment plants
P28	Ying Wang	Promising potential of the scyphozoan jellyfish <i>Aurelia aurita</i> as a new ecotoxicological model
P29	Veronica T.T. Lam	Effects of pharmaceutical antibiotic macrolide clarithromycin on cosmopolitan benthic dinoflagellate <i>Amphidinium carterae</i> (genotype 2)
P30	Fei Li	Combinatorial immune and stress response, cytoskeleton and signal transduction effects of graphene and triphenyl phosphate (TPP) in mussels
P31	Ganxing Liu	The dynamic variation of microbial community composition and HG-related gene abundance in the complex mangrove ecosystem
P32	Eun-Ji Won	Bioaccumulation of siloxane and the effects on amino acid metabolism of plankton, rotifer, and fish: an investigation into feeding relationship
P32S	Jae-Seong Lee	Effects of bisphenol a on reproduction, behavior, and acyltransferase gene expression in the rotifer <i>Brachionus plicatilis</i>
P33	Evonne Tan	Biogeochemical and optical properties of coastal waters of the Northern Malacca Straits
P34	Vincent Ho Yin Lai	Preliminary study on urban coastal areas: a final reservoir for antibiotic resistance genes
P35	Chung-Hung Chen	Removal efficiency of anti-tuberculosis drugs in primary wastewater treatment plant
P36	Nim Tung Calista Yuen	Oxidative conversion as tool to reveal unknown extractable organofluorine in complex matrices
P37	Xiang-Rong Huang	Fates of anti-tuberculosis drugs in municipal wastewater and receiving water: occurrence and removal
P38	Demilade T. Adedipe	Occurrence of pharmaceutical contamination in global estuaries
P39	Danyang Tao	Target and suspect screening and temporal trends of liquid crystal monomers in marine mammals from the South China Sea
P40	Pengchen Zheng	Impact of metabolic disruptor perfluorooctane sulfonate on the apoptosis and secretion of rat pancreatic islet cells
P41	Tzu-Hsuan Huang	Effects of anti-tuberculosis drug rifampin on reproductive toxicity of <i>Daphnia magna</i>
P42	Zi-Huai Lin	Reproductive effects of chronic exposure to anti-tuberculosis ethambutol on <i>Daphnia magna</i>
P43	Yuting Zhan	Occurrence, behavior and fate of liquid crystal monomers in municipal wastewater
P44	Qiong Luo	A robust approach to quantify 65 pharmaceuticals in a large-scale monitoring campaign
P45	Shuxian Li	Longitudinal ARGs profiles in wastewater treatment plant influent revealed by metagenomic analysis
P46	Yichun Lu	Identification of transformation products of organic UV filters by photooxidation and their differential estrogenicity assessment
P47	Jiaji Sun	Concise review on degradation of organic UV filters in the water environment

P48	Daeho Kang	Target and non-target analysis of organic pollutants in sewage effluent and receiving seawater in the Arctic region of Kongsfjorden
P49	Lianwei Ye	Studying the gut microbiome, resistome, and human pathogenic bacteria in marine fish of Hong Kong Marine Park
P50	Lai Wei	Organophosphate esters in seawater and sediments from the Yangtze River estuary (YRE) and East China Sea (ECS)
Legacy pollution issues		
P51	Ran Bi	Arsenic species and their health risks in edible seaweeds collected along the Chinese coastline
P52	Fung-Chi Ko	Bioaccumulation and trophic transfer of anthropogenic persistent organic chemicals in marine coastal plankton
P53	Chih-Feng Chen	Effects of terrestrial organic matter on metal contamination and ecological risks in port sediments
P54	Kendric Aaron Tee	Application of physiologically based toxicokinetic (PBTK) modeling for assessing exposure and tissue distribution of BDE-47 in <i>Neophocaena phocaenoides</i>
P55	Yee Cheng Lim	Assessment of bioaccumulation and ecological risk of potentially toxic metals in benthic ecosystem along coastal zone of industrialized city, southwestern Taiwan
P56	Jia-Jang Hung	Quantifying natural and anthropogenic fluxes of trace metals from a small mountainous river and estuary (Kaoping) in Southwestern Taiwan
P57	Jong-Seop Shin	Sublethal impacts of <i>Hebei spirit</i> oil spill on the reproductive physiology of Pacific oyster <i>Crassostrea gigas</i> at Taean on the west coast of Korea
P58	Julie Mondon	Bioaccumulation of trace metal elements in the critically endangered Maughan skate (<i>Zearaja maugeana</i>)
P59	Mengyi Xie	Insufficient evidence to link human exposure to heavy metals with biomarkers of glioma in coastal populations
P60	Shao-Hung Peng	The potential influence of submarine hydrothermal discharge on bioaccumulation of trace metals in zooplanktons
P61	Jin Young Choi	Distribution of tire and road wear particles (TRWP)-related potentially toxic elements (PTEs) with particle size in the port of Busan: a potential contributor of port sediment pollution
P62	Jin Young Choi	Road dust and traffic-derived non-exhaust particles: a preliminary study for the chemical characterization and marine environmental effects
P63	Taewoo Kim	Spatial distribution and source identification of persistent toxic substances in seawater and sediment of Gyeonggi Bay, South Korea
P64	Tse Fang	Cadmium concentration and C, N stable isotope analysis of finless porpoises (<i>Neophocaena</i> spp.) from Matsu
P65	Yu-Ru Tien	Concentrations of five heavy metals and C, N stable isotopes in the tissues of four cetacean around Taiwan
P66	Sori Mok	Accumulation levels and profiles of persistent organic pollutants (POPs) in blubber and fur of spotted seal (<i>Phoca largha</i>) from Peter the great bay, Sea of Japan/ east sea
P67	Fu Wei Chang	The accumulation of mercury in different sizes of phytoplankton in the eutrophic estuary, Northern Taiwan
P68	Xing-Chen Chen	Phosphorus fractionations and their transformations in sediment cores of the eutrophic estuary, Northern Taiwan
P69	Yuichiro Osaka	Changes in the concentration of polycyclic aromatic hydrocarbons in fecal pellets of <i>Marphysa</i> sp. e and reduced mud in the Yoro tidal flat, Japan
P70	Yan Jiang	Occurrence and ecological risk of organotins in the marine environment of Hong Kong
P71	Hyojun Lee	Saemangeum Lake sediment ecotoxicity assessment using benthic amphipods, polycyclic aromatic hydrocarbons (PAHs) and heavy metal analysis, and total organic carbon analysis

Poster Presentation B, Purple zone, 4/F, YEUNG (5 January 2024)

Advanced ecotoxicology

P72	Young-Mi Lee	Toxicity of polyethylene terephthalate microfragments on the monogonont rotifer <i>Brachionus Koreanus</i> : ingestion, acute and chronic toxicity, and transcriptomic and metabolomic modulation
P73	Duck Hyun Kim	A chromosome-level genome assembly of the marine medaka <i>Oryzias melastigma</i> : genome-wide identification of 778 G protein-coupled receptor genes for a fully annotated fish GPCR repertoire for ecophysiology
P74	Eunjin Byeon	Crispr/cas9-mediated gene targeting of two desaturase genes in the water flea <i>Daphnia magna</i> : implication to fatty acid and expression profiles
P75	Wei-Yu Chen	Insights into the effects of anti-tuberculosis compounds at gene expression level in <i>Daphnia magna</i>
P76	Jong-Seop Shin	Unveiling the gill symbiotic community in <i>Thyasira tokunagai</i> Kuroda & Habe and insights into sulfide detoxification in the East Sea-Byeong waste dumping site, Korea
P77	Aoxue Wang	Tebuconazole induces reproductive toxicity via Foxl2-mediated phosphorylation signaling in ZF4 cells of zebrafish
P78	Siyu Yang	Waterborne tebuconazole exposure induces male-biased sex differentiation in zebrafish (<i>Danio rerio</i>) larvae via aromatase inhibition
P79	Mengzhen Li	Immunotoxicity of BPA and its replacement chemicals

Biological responses to chemical mixtures and/or multiple stressors

P80	Yueling Zhang	Penaeid shrimp counteract high ammonia stress by generating and using functional peptides from hemocyanin, such as HMCS27
P81	Yueling Zhang	Ammonia stress affects the structure and function of hemocyanin in <i>Penaeus vannamei</i>
P82	Young-Mi Lee	Single and combined effects of mercury and polystyrene beads on multixenobiotic resistance (MXR) in the brackish water flea <i>Diaphanosoma celebensis</i>
P83	Junghyun Lee	Methodological advances and future directions of microalgal bioassays for environmental risk assessments
P84	Tzu-Chun Chen	Thermal effluent reduction effects on the plankton composition and levels in a tropical nuclear power plant
P85	Bohra Varsha	Metagenomics surveillance reveals different structure and function of prokaryotic microbial community associated with mangrove pneumatophores
P86	Kit Ling Lam	Habitat variation of prokaryotic communities and their connection with environmental factors in Mai Po Ramsar sediments
P87	Tingting Tian	Compare exotic and native mangrove plant species on composition and function of soil microbial community in Futian, Shenzhen, China
P88	Huilan Zhu	Comparison of free-living marine nematode community in interspersed habitats of mangroves and <i>Sporobolus alterniflorus</i> in Zhanjiang, China
P89	Eunjin Byeon	Physiological effects and molecular response in the marine rotifer <i>Brachionus plicatilis</i> after combined exposure to nanoplastics and copper
P90	Eunjin Byeon	Effects of nano- and microplastics with the combined exposure of zinc oxide nanoparticles on toxicity, oxidative stress, and energy metabolism in the marine rotifer <i>Brachionus koreanus</i>
P91	Taihun Kim	Subtropical coral expansion within high-latitude marginal coral communities in Jeju
P92	In Ok Lee	Influence of temperature on reproduction, and growth of the brown shrimp, <i>Crangon hakodatei</i> (Caridea, Crangonidae) in the East Sea of Korea
P93	Jin Zhou	Symbiotic bacterial communities and carbon metabolic profiles of coral <i>Acropora</i> at different health status response to heatwave
P94	Chung-Chi Chen	Effect of trace metal enrichment and thermal stress on the physiology of the Scleractinia coral
P95	Chi-Ying Hsieh	The sublethal effects of trace metals combined with various sediment particle size groups on the salt-tolerant chironomid larvae of <i>Kiefferulus longilobus</i>

P96	Gopi Narayanan Koilpitchai	Influence of salinity on the biochemical and physiological response in <i>Trachinotus blochii</i> exposed to selenium
P96S	Jae-Seong Lee	Synergistic effects of temperature, salinity, and nanoplastic beads on the life history traits of the marine rotifer <i>Brachionus plicatilis</i>
P97	Bandita Badakumar	Antifouling efficacy of chlorine dioxide on the physiological and cellular response in adult green mussel <i>Perna viridis</i> : a multimarker study
P98	Qianhe Liu	Natural organic matter enhanced natural transformation of extracellular antibiotic resistance genes in sunlit water
P99	King Yip Lai	Exploring factors shaping the microalgal community structure on pneumatophores
P100	Min-Sub Kim	Multigenerational effects of elevated temperature on host-microbiota interactions in the marine water flea <i>Diaphanosoma celebensis</i> exposed to micro- and nanoplastics
P101	Yuxuan Zhang	Identification of SNPs associated with salmon lice (<i>Lepeophtheirus salmonis</i>) resistance in Atlantic salmon (<i>Salmo salar</i>) using genome-wide association analysis (GWAS)
P102	Justin C.H. Leong	The effects of titanium dioxide nanoparticles (nano-TiO ₂) UV filter on fertilization rate and larval survival of Scleractinia coral <i>Acropora tumida</i>
P103	Taison Ka Tai Chang	Synergistic effect of salinity and suspended sediment on fertilisation success and embryonic development of <i>Acropora tumida</i> and <i>Platygyra carnosa</i> in a marginal coral environment, Hong Kong
P104	Elvis L.C.Wong	Coral chimerism: strategy to boost field survivorship in early outplants of sexually-reared <i>Acropora tumida</i> in Hong Kong
P105	Alice S.U. Lau	Environmental tolerance of gorgonian coral <i>Guaiagorgia</i> sp.
P106	Jeong-In Park	Transcriptome analysis and identification of potential biomarkers in human cell lines exposed to jellyfish SHK-like peptide
P106S	Alissa Victoria Bass	Marine heatwaves and light limitation independently alter the growth and productivity of the tropical seagrass <i>Halophila ovalis</i>
Biodiversity		
P107	Meng-Hsien Chen	Seasonal variation in fish assemblages and habitat utilization in Chiku Lagoon, Taiwan
P108	Chien-Cheng Lai	Seasonal variation of benthic fish assemblages in Changhua's offshore wind farm area, Central Western Taiwan
P109	Yi-Ling Wu	Cephalopod assemblages in relation to the environmental factors in the coastal waters off Western Taiwan
P110	Michelle H.C. Chan	Feasibility study of detecting local seahorse and pipefish species in the coastal area of Hong Kong by environmental DNA (eDNA)
P111	Yuen Wai Heung	Diversity of Pennatuloidae around Lantau Island, Hong Kong
P112	Hai Xin Loke	An integrated morphological and molecular study clarifies the identities of two species of porcelain crabs in the genus <i>Porcellanella</i> (Anomura: Porcellanidae)
P113	Chi Chiu Lo	The influence of ocean warming on the biofiltration function of the reef-building mussels and oysters (<i>Bivalvia</i> , <i>Mytilidae</i> and <i>Ostreidae</i>): A meta-analysis
P114	Jiamian Hu	Automatic detecting, identifying and measuring ostracods with deep learning
P115	Jialu Huang	Benthic ostracod diversity and biogeography in Deep Bay, Hong Kong
P116	Thea E. Bradford	Restoring degraded artificial shorelines in a polluted environment with eco-engineering: a case study from Hong Kong
P117	Rainbow W.S. Leung	Assessing biodiversity post-artificial beach construction at Lung Mei, Tolo Harbour
Coastal eutrophication, hypoxia, harmful algae blooms and algal toxins		
P118	Chung-Chi Chen	Phytoplankton blooms along the Chinese coast in the East China Sea
P119	Steven Jing-Liang Xu	Allelopathic effects of the leaf extracts from two mangrove species on harmful dinoflagellates

P120	Feng-Lan Li	Phytoplankton community in an estuary during <i>Karenia mikimotoi</i> bloom at low and high tides – A case study in a man-made channel in Shenzhen, China
P121	Xiaohong Sun	Temporal and spatial changes of dinoflagellates and their sporocysts in the north Yellow Sea in summer 2019
P122	Sea-Yong Kim	Occurrence and seasonal distribution of the neurotoxin β -n-methylamino-l-alanine in mussels in the South Sea coast of Korea
P123	Meng Yan	Toxicity effects of hydrophilic algal lysates from <i>Coolia tropicalis</i> on marine medaka larvae (<i>Oryzias melastigma</i>)
P124	Dechen Lu	Epiphytic common core bacteria in the microbiomes of co-located green (<i>Ulva</i>), brown (<i>Saccharina</i>) and red (<i>Grateloupia</i> , <i>Gelidium</i>) macroalgae
P125	Winnie Lam	Modulation of ichthyotoxicity of <i>Karenia mikimotoi</i> by its co-culturing associated bacteria
P126	Chun Hung Lee	Proteomic insights of interaction between ichthyotoxic dinoflagellate <i>Karenia mikimotoi</i> and algicidal bacteria <i>Maribacter dokdonensis</i>
P127	Jun Kim	A study on the detection of saxitoxin (STX) in real seafood using neuro-2a assay
P128	Nobuhisa Kajino	Detection of tetrodotoxin (TTX) and its analogues in mud snails <i>Nassarius livescens</i> occurring on a sandy beach in Jeju Island, Korea using a liquid chromatography-tandem mass spectrometry (LC-MS/MS)
P129	Nobuhisa Kajino	Quantification of tetrodotoxin (TTX) and its analogue in the blue-lined octopus <i>Hapalochlaena fasciata</i> (Hoyle, 1886) from Jeju Island, Korea
P130	Won Bae Joh	Okadaic acid-induced cell cycle inhibition in EA.HY926 human vascular endothelial cells
P131	Zixuan Ding	Feeding behaviors responses of two copepods- <i>Paracalanus parvus</i> and <i>Calanus sinicus</i> to three typical red tide algae with different concentrations
P132	Yoseop Lee	Differential susceptibility to hypoxia in hypoxia-inducible factor 1-alpha (HIF-1 α)-targeted freshwater water flea <i>Daphnia magna</i> mutants
P133	Yoseop Lee	Oxidative stress-mediated deleterious effects of hypoxia in the brackish water flea <i>Diaphanosoma celebensis</i>
P134	Jingyi Zhu	Investigation of dinoflagellate Gambierdiscus and coral reef fish of the Republic of Kiribati
P135	Li Zhang	Spatiotemporal distribution and driving mechanisms of algal toxins and their producers in Hong Kong coastal waters
P136	Xiaowan Liu	Investigation of the effects of 44-methylgambierone on marine medaka (<i>Oryzias melastigma</i>)
P137	Eun-Ji Won	Anthropogenic alteration in artificial seawater lake water quality and planktonic ecosystem
P138	Yongzhi Chen	Polymorphic change in microalgae and its associated environmental factors in Khao Chau Ocean, Huizhou
Technology		
P139	Ming Liu	Advanced oxidation technology for efficient treatment of emerging pollutants
P140	Lin Lin	Lithium recovery from saline water through H ₃ LiTi ₅ O ₁₂ -based capacitive deionization technology
P141	Meng Yan	Development of a platform for rapid identification of microalgae and microplastics in seawater
P142	Xian Qin	Ocean mapping technology promoting carbon neutrality - A case study in Tung Ping Chau, Hong Kong
P143	Hong Zhou	Meio- and macrofauna as indicators in the ecological monitoring program, do they behave the same?
P144	Dagmara Leszczyńska	Solid-phase microextraction as a novel technique to extract carbamazepine and its metabolites from <i>Chlamys islandica</i> after experimental exposure
Environmental policy		
P145	Chang Keun Lee	Nationwide evaluation of purification capacity for waterborn nitrogen and phosphorous in coastal sediments of South Korea
P146	Ha-Eun Cho	Do application of ethical practices in fish sampling affects physiological conditions and stable isotope ratios in the fish samples?

P147	Min-Sub Kim	In silico identification and characterization of microRNAs from four aquatic invertebrate species
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General Information

Internet access

Free Wi-Fi service is provided to visitors on campus and the SSID used is “*Wi-Fi.HK via CityU*”. Upon connection, a web browser will be opened and you will be prompted to the welcome page of the Wi-Fi.HK via CityU. You will be required to read and accept the Conditions of Use and Disclaimers before Internet connection is granted.

Canteen

Participants can enjoy lunch using the lunch coupon included in the registration package. The lunch coupons can only be used at:

AC2 Canteen

Location:	Level 3 Li Dak Sum Yip Yio Chin Academic Building
Opening Hours:	Monday to Sunday 07:30 - 21:00
Phone:	2338 0883
Map:	Please refer to the CityU Map at the back of this booklet cover

Participants are also welcome to visit other catering outlets in CityU for lunch at their own expenses, as the conference lunch coupon is only accepted in the AC2 Canteen. All catering outlets in CityU can be viewed via the link below:

<https://www.cityu.edu.hk/directories/catering>.

Banking Facilities on Campus

1. Hang Seng Bank - City University Branch

Location: Level 3 Yeung Kin Man Academic Building
(Next to the Run Run Shaw Library)
Opening hours: Monday to Friday 09:00 -17:00
Phone: 2198 5825

2. The Bank of China- City University Branch

Location: Level 3 Yeung Kin Man Academic Building
(Next to the CityU Bookshop)
Opening hours: Monday to Friday 09:00 -17:00
Phone: 3988 2388

Business Facilities

Facilities such as fax, photocopying, etc., will be available at nominal charges. Please contact the Conference Secretariat at the reception desk.

University Bookstore and Souvenir Shop

1. CityU Bookshop: Level 3 Yeung Kin Man Academic Building;
Opening hours: Monday to Friday 10:00 - 18:00; Phone: 3442 2290
2. Visitor Centre: Level 3 Lau Ming Wai Academic Building;
Opening hours: Monday to Friday 10:00 - 17:00; Phone: 3442 6296

Security Control Centre

In case of lost and found, please contact the conference secretariat or visit the security office at Room R4051, 4/F., Bank of China (Hong Kong) Complex. All loss reports must be made in person at the security office.

Health Services

Young Chung Yee Health Centre

Location: Level 4 Amenities Building

Opening hours: Monday to Friday: 09:00 - 13:00, 13:30 - 18:00

Saturday: 09:00 - 12:15

Phone: 3442 6066

For urgent medical attention, please go straight to the Accident & Emergency Department of any major hospital in Hong Kong. All regional hospitals offer 24-hour emergency service for acute illnesses or injuries. The nearest hospital with an A&E Department: 111 Wing Hong Street, Sham Shui Po, Kowloon (Caritas Medical Centre; Phone: 3408 7911).

Programme Changes

Any necessary changes to the programme will be notified on the conference noticeboard near the reception desk. The confirmed programme for each session will also be posted on the door of presentation venues.

Special arrangements during typhoon, rainstorms, or other adverse weather conditions

If a No. 8 or 10 typhoon signal or a Black rainstorm signal warning remains hoisted **at or after 7:00 AM** on a day during the conference period, all presentations scheduled for the morning sessions will be conducted online via Zoom according to the schedule.

Presentations in the afternoon sessions will resume after 1:30 PM if the signal is lowered (i.e., Typhoon signal no. 1 or 3; Amber or Red rainstorm signal); while all presentations scheduled for the afternoon sessions will be conducted online via Zoom according to the schedule if No. 8 or 10 typhoon signals, or a Black rainstorm signal **remains hoisted at or after 12:00 PM**.

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Conference Secretariat

State Key Laboratory of Marine Pollution

Address: P5840, Yeung Kin Man Academic Building, CityU, 83 Tat Chee Avenue, Kowloon

Phone: 3442 2032

Note-taking

Note-taking

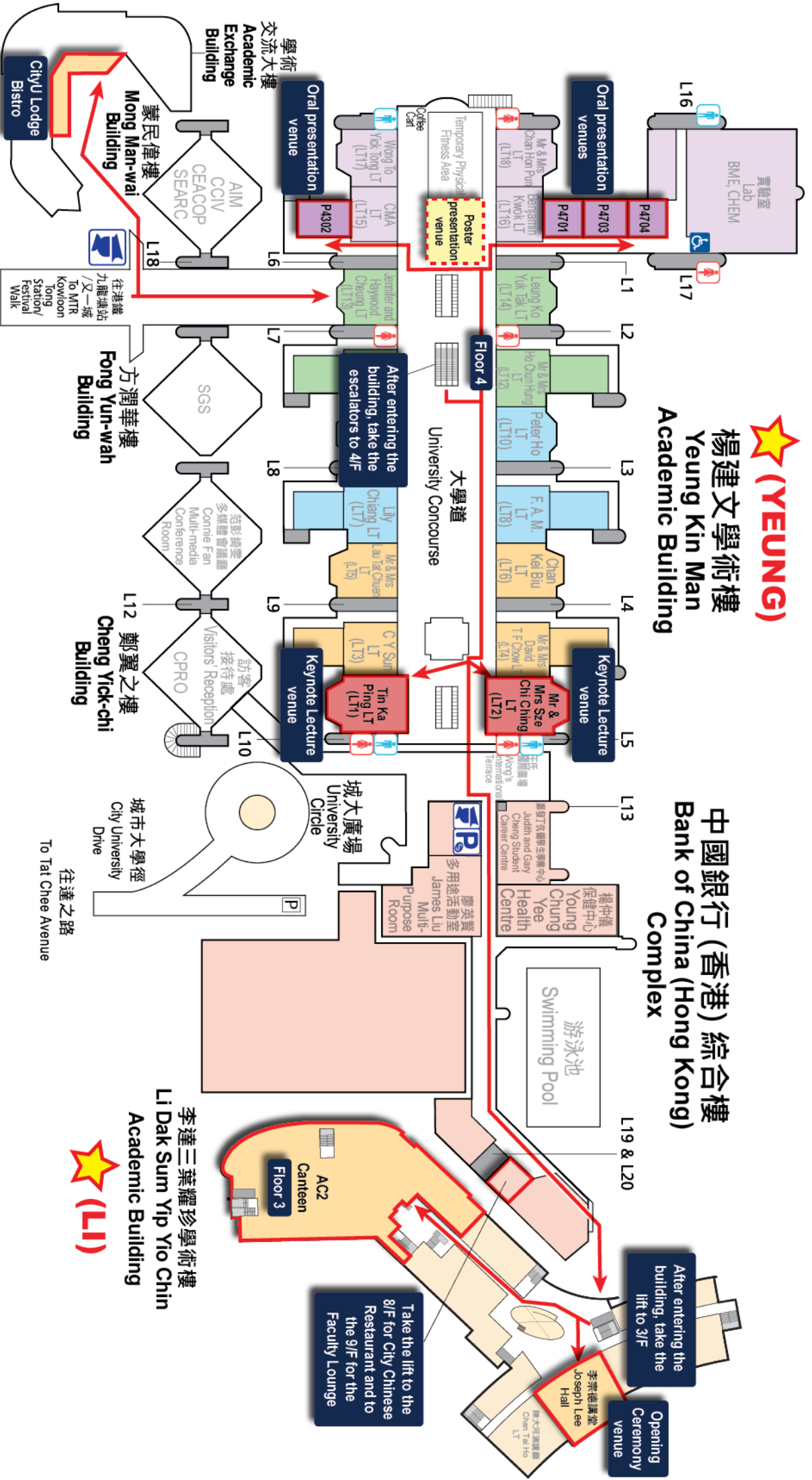
Note-taking

Note-taking



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City University of Hong Kong
Main Campus



CityU Campus Map

CityU Virtual Tour