



Ocean Circulation, Ecosystem and Hypoxia around Hong Kong waters (OCEAN-HK)

The Hong Kong University of Science and Technology
Theme-based Research Scheme, UGC, Hong Kong

OCEAN-HK SYMPOSIUM 2022

Status, Trend and Solution of the Greater Bay - HK Ocean

(updated 2022-07-26)

Theme-based Research Scheme (TRS)

OCEAN-HK Symposium 2022

Diagnosis and prognosis of intensifying eutrophication, hypoxia and the ecosystem consequences around Hong Kong waters: coupled physical-biogeochemical-pollution studies

<https://ocean.ust.hk/>

Date: July 29, 2022 (Friday)

Time: 9:00 – 17:00 (HKT)

Venue: Mr and Mrs Lee Siu Lun Lecture Theater (LT-K)
Hong Kong University of Science and Technology

Registration Link: <https://bit.ly/3zD8fKS>

Programme rundown

(Presentation time including 5mins Q&A session)

09:00-09:05 **Welcoming Remarks** Prof. Jianping Gan HKUST

Keynote speech (Chair: Prof. Jianping Gan)

09:05-09:50 Controls on coastal hypoxia: A global synthesis and case studies for the East China Sea and northern Gulf of Mexico Prof. Katja Fennel DAL

09:50-10:35 On the ocean health and ocean sustainability: Pearl River Delta and beyond Prof. Minhan Dai XMU

10:35-11:20 Achievement, development and challenge of OCEAN_HK Prof. Jianping Gan HKUST

11:20-11:35 **15mins Coffee Break**

Report on new findings 1 (Chair: Prof. Stanley Lau)

11:35-11:55 Warming escalating the favor towards small marine protists in hypoxic waters: An integrated laboratory and field study Prof. Hongbin Liu HKUST

11:55-12:15 Reversing impact of phytoplankton phosphorus limitation on coastal hypoxia due to interacting changes in surface production and shoreward bottom oxygen influx Prof. Liuqian Yu HKUST

12:15-12:35 Ecological risk assessment on priority emerging chemicals of concern in the South China Sea coastal region Dr. Yuefei Ruan CityU

1hour 25mins Lunch Break



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Report on new findings 2 (Chair: Prof. Hongbin Liu)

14:00-14:20	Hypoxia and sediment oxygen consumption	Prof. Jiying Li	HKUST
14:20-14:40	High discharge intensified low net ecosystem productivity, hypoxia, and acidification at three outlets of the Pearl River Estuary, China	Dr. Xiaomei SHEN	HKUST
14:40-15:00	External and internal forcings for hypoxia formation in an urban harbour in Hong Kong	Dr. Zhongming Lu	HKUST
15:00-15:20	Coastal pollution	Prof. Guizhi Wang	XMU
15:20-15:40	Organic carbon dynamics on the NSCS shelf, a review and synthesis	Dr. Tiantian Tang	XMU

Report on new findings 3 (Chair: Prof. Jiying Li)

15:40-16:00	Microbial assessment of pollution and response to hypoxia in the coastal South China Sea	Prof. Stanley Lau	HKUST
16:00-16:20	Features of sediment erosion during typhoon events over the PRB and its impacts on the PRE	Prof. Ji Chen	HKU
16:20-16:40	Metagenomics analysis on the alterations of microbial community composition and functional repertoire under hypoxia	Dr. Lok Yi Tang	HKUST

16:40-17:00 Summary and discussion (Chair: Prof. Jianping Gan)