



澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



不惑新航
揚帆追夢
SET SAIL ANEW ON
THE RUBY JUBILEE

大學講壇：海上基建的需求與挑戰

University Lecture Series:

Demands and Challenges of Marine Infrastructure Construction

海上基礎設施是人類開發利用海洋空間、資源、能源的核心支撐，對經濟可持續發展、海上安全等至關重要。講座將首先回顧當前海洋開發利用面臨的主要挑戰，闡述海洋工程科技的發展現狀。重點分析海洋資源開發利用、海上基礎設施與海工裝備研發、海上交通基礎設施互聯互通，以及海洋生態環境危機應對等領域的發展機遇和工程科技緊迫需求。展望如何推動海洋科技發展，創新海洋資源開發利用的新理念、新技術、新設施，探討分析科技創新發展規律和產學研政用機制創新，促進海洋產業與海洋經濟高質量發展。

Marine infrastructure is indispensable to the exploitation of marine space, resources and energy, and is vital to a sustainable economy and maritime safety. In this lecture, Academician Huajun LI will first review the major challenges in the exploitation of the oceans and the current development in ocean engineering and technology. He will then focus on the development opportunities and urgent technological needs in areas such as use of marine resources, R&D of offshore infrastructure and offshore engineering equipment, connectivity of maritime transport infrastructure and management of oceanic environmental crises. He will explore ways to drive the development of ocean science and technology, discuss new ideas, technologies and facilities in the development and exploitation of marine resources, and analyse the innovative pattern of technological development and interaction between industries, universities, research institutes, governments and users for a high-quality growth of the marine industry and economy.