

Promote the Pace of Building a Powerful Maritime Nation in the New Era Through Comprehensive Deepening of Maritime Education Reform

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Abstract: China has exposed a series of issues such as the lack of concerted efforts in marine governance, insufficient coordination in marine spatial planning, the strength of marine industries being large but not strong, inadequate marine scientific innovation, low technology transfer rates, and a shortage of marine scientific research talents, highlighting the negative factors of marine education in the construction of a maritime superpower. These issues hinder the pace of building a maritime superpower and thus urgently require comprehensive deepening of China's marine education system and mechanisms, promoting the integrated development of marine education, science and technology.

Keywords: New Era Marine Power Strategy, Marine Education, reform steps

1. Introduction

To meet the demands of the new eras strong maritime country in terms of science and technology and talent^[1], it is urgently necessary to comprehensively deepen the reform of China's marine education supply side, promote the integrated reform of marine education, science and technology, and talent development mechanisms, and accelerate the high-quality development of marine education.

2. The proposal and development of China's strategy to become a maritime power

The 14th Five-Year Plan and beyond will see the strategic advancement of building a strong maritime nation under the guidance of Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era. The goal is to promote high-quality development through Chinese-style modernization in marine economy, marine science and technology, marine ecology, naval and national defense construction, vigorously developing new marine productive forces, improving digital marine infrastructure, broadening data acquisition channels, constructing marine data platforms, strengthening marine data governance capabilities, and comprehensively enhancing the quality of marine basic data.

3. Core problems encountered in the construction of China's maritime power

Currently, the construction of a strong maritime nation has undoubtedly achieved certain results^[2], but overall it is still in the initial acceleration stage, with issues such as insufficient coordination of marine spatial planning, the marine industry being large but not strong, inadequate marine scientific and technological innovation, low conversion rate of marine scientific and technological achievements, and a lack of marine scientific research talents, highlighting the negative factors of marine education in the modernization of marine economy, science and technology, ecology, and maritime defense, becoming the bottlenecks, obstacles, and critical points in building a strong maritime nation, urgently requiring comprehensive deepening of reforms^[3]. The distribution of marine educational resources in our country is not balanced, with high-quality marine educational resources mainly concentrated in a few universities and research institutions, showing

significant differences between regions and schools; the marine education system is still imperfect, lacking a complete marine education system from basic to higher education, and the curriculum settings and teaching content of marine education need optimization; marine education investment is insufficient, with relatively limited investment in marine education, which restricts the rapid development of marine education, hindering the accelerated construction of a strong maritime nation, and the supply of marine education cannot meet the demands of building a strong maritime nation, thus the demand side forces the marine education supply side to reform. Therefore, there is an urgent need for further comprehensive deepening of reforms in our country's marine education system to continuously innovate autonomous scientific research and development levels and cultivate more people willing to dedicate themselves. The pillar of building a strong maritime country.

4. Specific measures to comprehensively deepen the reform of Marine education in China

4.1 Optimize the layout and disciplinary structure of marine education

In terms of educational system reform, actively optimize the marine education structure at primary, secondary, and higher education levels, reasonably set up marine education courses at higher, secondary, and primary levels, support and encourage individuals and organizations to participate in education, and effectively leverage the new achievements of marine education reform to promote the high-quality development of a new era marine power. Improve the adjustment mechanism for marine discipline settings, strengthen the construction of marine foundational disciplines, emerging marine disciplines, and interdisciplinary marine studies, optimize the marine specialty settings at the higher education stage, add urgently needed specialties such as marine science and technology^[4], marine management, and marine law, and expand enrollment scales; promote the deep integration of vocational education with the marine industry; promote cooperation between universities, research institutions, and enterprises to jointly cultivate interdisciplinary talents in the marine field.

4.2 Enhance Marine Science and Technology Innovation Capabilities

Strengthen the construction of marine research institutions, increase investment in marine research institutions, support their conduct of frontier, fundamental, and strategic marine scientific research. Promote collaborative innovation between research institutions, enterprises, and universities, forming a closely integrated marine science and technology innovation system of industry, academia, research, and application. Strengthen university-enterprise scientific research cooperation, enabling more marine scientific and technological achievements to be quickly transformed into practical productivity. Establish and improve the marine science and technology transformation mechanism, promoting the conversion of scientific and technological achievements into practical productivity. Encourage enterprises to increase R&D investment, introduce and cultivate technology-based enterprises, promoting the innovative development of the marine industry.

4.3 Strengthen the construction of marine talent teams

Collaboratively build distinctive marine universities with enterprises, schools, and research institutions, especially by preemptively laying out distinctive advantageous and forward-looking marine disciplines and new majors, to cultivate a group of strategic scientific and technological talents, leading talents, young talents, and high-level R&D teams in the marine field for the future construction of a strong maritime nation. Innovative integrate marine environmental protection and comprehensive perception, marine resource development rights protection, marine science and technology information, and marine safety disciplines, continuously promote interdisciplinary and multi-domain collaborative innovation and integrated development, build a modern marine industry system, and continuously advance the construction of a modern marine industry system^[5]. Promote development through innovation in the ocean, cultivate more high-level marine scientific research achievements and high-level marine talents.

4.4 Enhance the educational skills and professional ethics of marine university teachers

The premise for building a high-quality marine education reform is to have a high-quality and high-level strategic marine teacher talent pool. High-quality development are the primary element of new productive forces. Marine university teachers are the primary element of marine educational productivity, and new productive forces place higher demands on the knowledge and skills of marine university teachers, who must be able to "lead the worlds technological frontiers, innovate and create new production tools," "master new productive materials proficiently," and possess good professional ethics and conduct. The construction of a strong marine nation in the new era requires a large number of marine teachers

with the qualities of educators, characterized by strong political awareness, deep sentiment, innovative thinking, broad vision, strict self-discipline, and upright character. These teachers should care about the ocean, manage the ocean, devote themselves to academic pursuits, sincerely seek knowledge, and meticulously nurture students, aspiring to the goal of "cultivating the teaching profession and strengthening the country." They should cultivate more outstanding talents with solid disciplinary foundations, forward-thinking innovation awareness, and broad international perspectives, who are versatile and capable of developing new marine productive forces and building a strong marine nation.

5. Conclusion

Comprehensively deepening the reform of marine education is a leading task for accelerating China's construction as a maritime power. Through coordinated efforts in integrating marine education with science, technology, and culture, high-quality marine education will cultivate more international scientific and technological talents and management personnel with global competitiveness and influence, providing strong talent support and intellectual backing for the scientific development of a maritime power, thus accelerating the construction of the maritime power strategy in the new era.

References

- [1] Zhang Qiao. Path Selection for Accelerating the Construction of a Maritime Power from the Perspective of Chinese Modernization. *Ocean Development and Management*, 2024.05.
- [2] Gao Hu, Li Hai. Accelerating Marine Energy Development to Support the Construction of a Maritime Power and an Energy Power. *Science and Technology China*, 2024.12.
- [3] Liu Wei. A Community with a Shared Future for the Oceans: China's Approach to Global Ocean Governance in the New Era. *Asia-Pacific Security and Maritime Studies*, 2021.04.
- [4] Wang Fang. Research on the Situation and Tasks of Maritime Power Construction in the New Era. *Journal of Ocean University of China (Social Sciences Edition)*, 2020.05.
- [5] Zhang Jingquan. Opportunities and Challenges in China's Maritime Power Construction. *People's Tribune*, 2023.11.

Project:

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