

岩手大学分子接合技術研究センター基調講演 (IEWF-AAC/CSMIS/銀河レクチャージョイントセッション)

◆講師：王啓偉 (Qiwei Wang) 教授（暨南大学）

Wang Qiwei is a professor and doctoral supervisor whose research focuses on material surface engineering and re-manufacturing. He currently serves as Vice Dean of the College of Chemistry and Materials Science, and Director of the Institute of Advanced Wear-Resistant and Functional Materials at Jinan University. Additionally, he holds concurrent positions as Deputy Director of the National and Local Joint Engineering Research Center for High-Performance Metal Wear-Resistant Materials Technology, and Deputy Director of the Guangdong Engineering Research Center for 3D Printing and Additive Manufacturing. He is also active in academic organizations, including serving as General Secretary and Committee Member of the Remanufacturing Engineering Branch of the Chinese Mechanical Engineering Society.



◆演題：「Novel Surface Engineering Technology for High-end Equipment」

◆日時：令和7年 10月9日（水） 15:00～16:00

◆場所：岩手大学 理工学部 復興祈念銀河ホール

◆参加費：無料（岩手大学教職員・学生）

講演概要：

Multi-functional protective coatings are finding growing use across various industries and research fields. This work focuses on tackling the high failure issue of key moving parts in marine engineering equipment, which often occurs due to inadequate coating protection under extreme conditions like high-salt corrosion and friction wear. We have achieved breakthroughs in key technologies, including composite coating design, electrolyte control, and preparation processes, establishing a green electrolyte system and process standards. Additionally, through "material-structure-process" collaborative innovation, we've developed a new multi-functional coating material system suitable for harsh marine environments and built protection technologies with independent intellectual property rights. This addresses drawbacks of existing coatings, such as limited performance and difficulty in mass production via traditional methods, thus supporting the advancement of advanced marine engineering equipment and the marine industry.

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