International Conference on Marine Science & Aquaculture (ICOMSA) 2026

Tuesday, October 27, 2026 - Wednesday, October 28, 2026

Scientific Program

Ocean Resilience For Planetary Health

□□□Marine Human Health Nexus

This subtheme explores the connection between ocean ecosystem and human well-being. This includes on how marine environment influence nutrition, livelihoods, disease dynamics, and overall quality of life, while also examining how human activities, pollution, climate change, and resource use can impact the marine ecosystems. By bridging marine science, environmental management, and health research, this subtheme aims to foster integrated, solution-oriented approaches that support resilient oceans and healthier coastal and island communities.

□ Marine Biodiversity and Conservation

The world's ocean are under increasing threat due to climate change, overfishing, habitat destruction, and pollution, making it imperative to understand and protect marine biodiversity. We welcome original research articles, reviews, and case studies that address critical issues in marine biodiversity assessment, conservation strategies, ecosystem restoration, and policy developments. Join us in advancing our knowledge and efforts to safeguard our oceans and the wealth of life they contain.

□□ Marine Pollution and Ocean Health

This theme focuses on the various forms of pollution affecting marine ecosystems, including plastic waste, oil spills, chemical contaminants, and their detrimental impact on marine life and human well-being. We explore innovative solutions, policy frameworks, and scientific advancements aimed at mitigating marine pollution, restoring ocean health, and ensuring the sustainable management of our precious marine resources.

□Climate Change: Mitigation and Adaptation

This theme underscores the need for a multifaceted approach to combat climate change, emphasizing the development and implementation of sustainable technologies, policies, and practices to curtail emissions while concurrently fostering strategies to adapt to the changing climate. Discussions within this subtheme revolve around finding a balance between reducing the drivers of climate change and preparing communities, ecosystems, and economies for the inevitable changes in weather patterns, sea levels, and extreme events, ensuring a comprehensive response to the global climate crisis.

□ Aquaculture Disease and Health Management

This subtheme is focusing on the multifaceted challenges and solutions within the aquaculture industry. This theme addresses the critical need for disease prevention, diagnosis, and management in aquatic organisms, emphasizing the importance of sustainable and responsible practices. Delegates and experts in this field will delve into cutting-edge research, innovations, and strategies aimed at safeguarding the health and well-being of aquaculture species, thereby ensuring the continued growth and resilience of this crucial global food production sector.

□ Aquaculture Breeding and Technology

This subtheme focuses on advances in aquaculture breeding and technology that support sustainable, resilient, and productive aquatic food systems. It highlights innovations in selective breeding, genetics, hatchery practices, and emerging technologies such as digital monitoring, automation, and production systems that improve growth performance, health, and resource

efficiency. By integrating technology, this subtheme emphasizes solutions that enhance aquaculture productivity.

□□ Seafood Safety and Security

This subtheme addresses seafood safety and security as components of food security and sustainable fisheries and aquaculture. It focuses on risks and challenges associated with contaminants, pathogens, biotoxins, and post-harvest handling, as well as traceability, quality assurance, and regulatory frameworks across the seafood supply chain.

□□ Nutrition and Feed Technology

This subtheme explores the pivotal intersection of science and technology in the field of animal nutrition and feed production. This subtheme delves into the latest advancements and research related to formulating balanced diets for aquaculture, optimizing feed manufacturing processes, and enhancing the nutritional quality of animal-derived products. It addresses critical issues such as sustainable sourcing of feed ingredients, innovative feed additives, and precision feeding techniques, all contributing to the promotion of animal health, welfare, and the overall efficiency of the aquaculture industry.

□ Citizen Science, Awareness and Education

This highlights the crucial role of engaged communities and individuals in scientific research and environmental stewardship. It focuses on the empowerment of citizen scientists, who contribute valuable data and insights to various research fields. Moreover, it underscores the importance of raising awareness about pressing scientific and environmental issues, fostering public engagement, and promoting science education at all levels. It aims to explore how citizen science initiatives, awareness campaigns, and educational programs can collaboratively drive innovation, advocate for sustainability, and inspire a deeper understanding of our world among diverse audiences.

□□ Remote Sensing and Coastal Oceanography

This subtheme is dedicated to the application of advanced remote sensing technologies in the study of coastal environments and oceanographic processes. This subtheme explores the utilization of satellites, drones, and other remote sensing tools to collect valuable data for monitoring and understanding the dynamics of coastal zones, including coastal erosion, water quality and marine ecosystems.

□□ Blue Economy of Coastal Communities

This subtheme explores the sustainable utilization and management of coastal resources as a catalyst for economic growth, environmental conservation, and community development. This conference topic delves into innovative strategies, policies, and technologies that empower coastal communities to harness the potential of their marine and aquatic ecosystems while preserving biodiversity and ensuring social equity. It highlights the interplay between traditional livelihoods, such as fisheries, tourism, and aquaculture, emphasizing the importance of holistic approaches that balance economic prosperity with ecological resilience and social well-being in these unique coastal environments.

□□□ Blue Carbon in Coastal Ecosystems

This subtheme highlights the role of blue carbon in coastal ecosystems as a nature-based solution for climate change mitigation and ecosystem resilience. It focuses on carbon sequestration and storage in mangroves, seagrasses, as well as the impacts on carbon dynamics. By integrating ecological science, climate policy, and coastal management, this subtheme emphasizes the importance of conserving and restoring blue carbon ecosystems to support climate regulation, biodiversity, and sustainable coastal livelihoods.

□ IoT in Aquaculture and Marine Science

This subtheme highlights the use of smart sensors, real-time data acquisition, remote sensing, and data analytics to improve water quality control, animal health, productivity, and environmental assessment. By leveraging digital innovation and integrated data systems, this subtheme emphasizes how IoT-driven approaches can support sustainable aquaculture practices, efficient resource use, and advanced understanding of marine ecosystems.

□□ Fisheries Product Technology

This subtheme focuses on innovations in fisheries product technology aimed at improving the quality, safety, and value of seafood from harvest to market. It covers processing techniques, preservation methods, value addition, packaging, and product development that enhance shelf life, nutritional content, and consumer appeal by integrating technological advances.