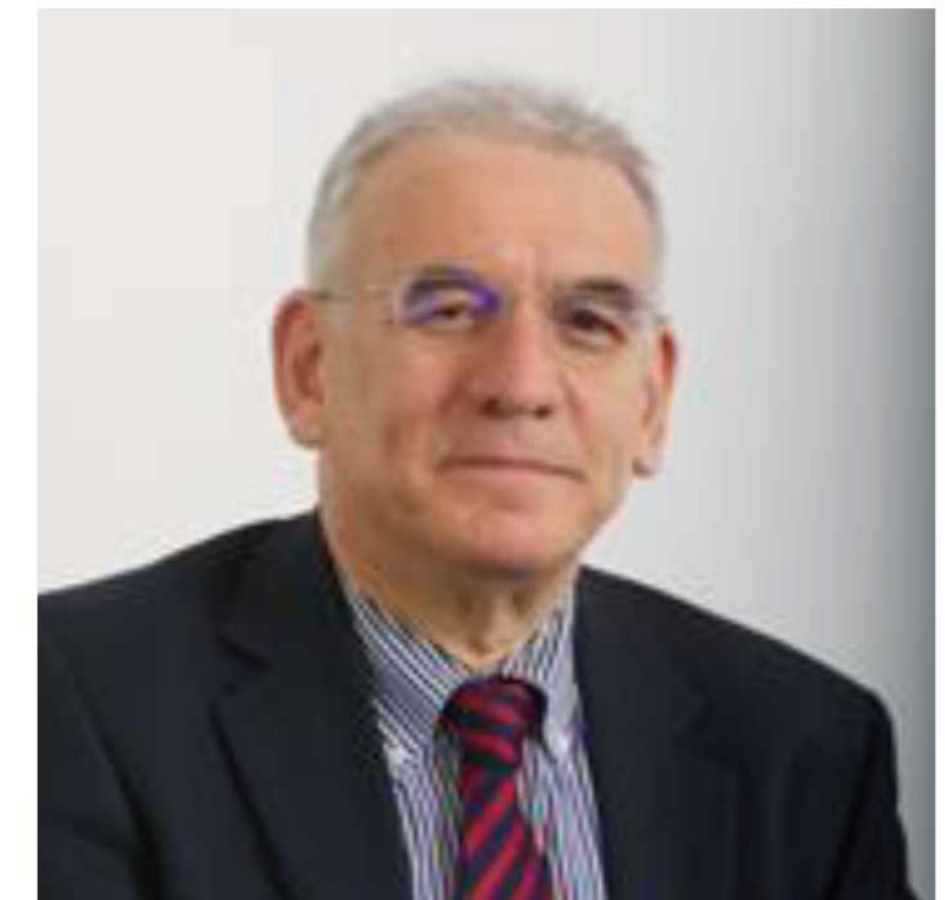




Academic Lecture III

- **Theme:** Ocean Science and Engineering Research and Education for Sustainable Utilisation of Ocean Resources
- **Speaker:** Prof Atilla Incecik, University of Strathclyde
- **Time and Venue:** 2:00-4:00 pm, July 5 2019, Meeting Room A301, SLCOE



Abstract:

Oceans and seas cover approximately 70 % of the earth's surface. They host a complex ecosystem which gives rise to a wealth of resources available for local and global consumption. Oceans and seas regulate the world's climate, providing the largest interface between the ocean surface layers that store a large proportion of the incoming solar energy and the atmosphere. On one hand, oceans support an abundant and diverse web of life, which constitutes an integral part of the marine biological diversity. On the other hand, evidences indicate that marine biodiversity is under growing pressure from different types of human activity. The primary causes of loss of marine biodiversity include pollution, climate change and increasing demands for biological resources as a result of the growth in the human population and world production, consumption and sea trade. Due to these unprecedented pressures, we are witnessing the degradation of habitats and the over-exploitation of biological resources, physical and chemical pollution as well as climate change. Conservation of oceans and sustainable use of marine biodiversity must therefore become an integral part of social and economic development in order to ensure that the variety of services oceans and seas provide will be available to support human needs in the long term. This can be achieved by

- Developing a better understanding of the oceans and seas
- Improving products and services for marine monitoring
- Increasing direct collaboration between the marine sciences and maritime technology

This presentation will identify the impact sources and discuss current impacts and mitigation.

Biography:

Prof. Atilla Incecik is Associate Principal, Executive Dean of Faculty of Engineering, University of Strathclyde, Glasgow. He has been responsible for the development of design and analysis tools and model testing of marine and offshore engineering systems during his research activities both in industry and academia. His current research includes development of dynamic load and response prediction tools for ships, offshore platforms and marine renewable energy devices.

Professor Incecik is the Research Manager of Industrial Doctoral Centre for Offshore Renewable Energy (IDCORE). He is also a member of committees of a number of international professional bodies, an advisory professor at Shanghai Jiao Tong University, a visiting professor at Harbin Institute of Technology and Chair Professor at Zhejiang University, the Editor-in-Chief of Ocean Engineering Journal.