

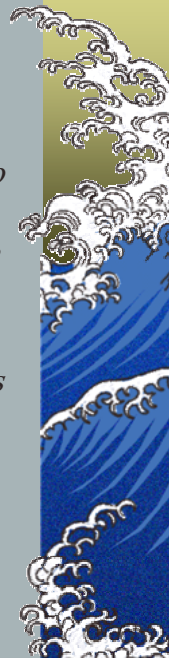
Establishment of the UK's First School of Marine Science and Technology

Atilla Incecik
School of Marine Science and Technology
University of Newcastle upon Tyne



Importance of Marine Industries

- ▲ *Marine activities make a very significant contribution to the UK's prosperity and quality of life.*
- ▲ *The annual contribution of all marine activities to GDP amounts to 4%, corresponding to £52 billion turnover and an added value of £28 billion.*
- ▲ *Offshore oil and gas alone have a sale value the same as the aerospace industry (£17 billion)*
- ▲ *Over the next decade the UK marine industries will grow and offer increasing business opportunities in export markets*



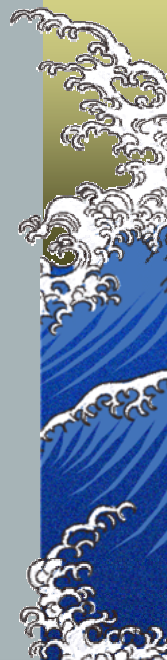
Importance of Marine Industries

- ▲ *The UK marine industries are major employer:*
 - ▲ 354,200 (+68,800 associated with the Royal Navy)
 - ▲ 400 marine related companies in the north east employing some 28,000 people (8% of the UK total)
- ▲ *The UK marine industries employ more people than many other major employers:*
 - ▲ Agriculture: 297,000
 - ▲ Combined Electricity, gas and water industries: 136,000
 - ▲ Aerospace Industry: 155,000

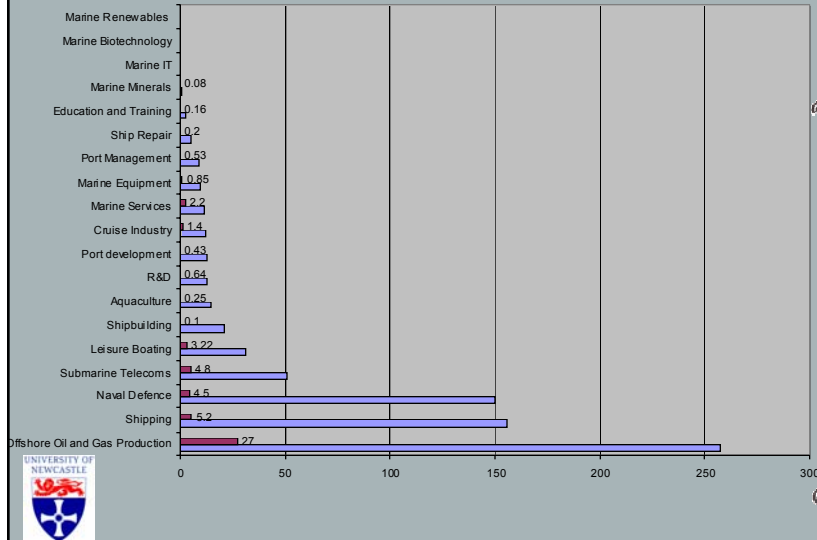


Importance of Marine Industries

- ▲ *The UK Marine Education sector earns £20 million from overseas students.*



WORLD MARINE MARKET SECTORS (£ billion) and UK SHARE



Establishment of School of Marine Science and Technology

- ▲ *The establishment of the School of Marine Science and Technology by merging the Department of Marine Science and Coastal Management with the Department of Marine Technology provides a single base for all education, innovation and research related to sea.*



The research on marine environment at the School

- ▲ *Large scale monitoring and prediction of ecosystem change, and examination of the molecular and cellular mechanisms of organism' responses*
- ▲ *The marine contribution to climate change through studying the fluxes and production of important mediators which include: climatically active trace gas cycling and sea-air exchange; the measurement and quantification of the disproportionate contribution of fluxes in estuaries and oceanic upwellings; the role in the oceanic climate change of nutrients associated with major production sources (fisheries, kelp and mangrove).*

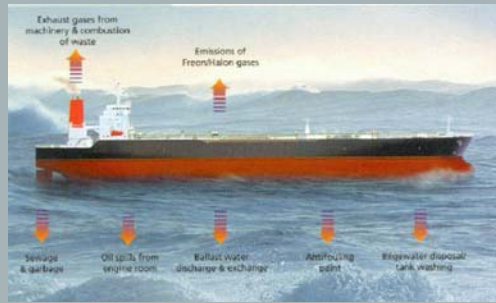


The research on marine environment at the School

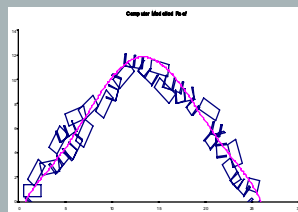
- ▲ *Development of technologies for reduced environmental impact from marine and offshore operations*
- ▲ *Development of technologies for the production of environmentally acceptable renewable energy*
- ▲ *Development of techniques for the assessment of impact on the environment and society from production , maintenance, repair and operations of ships, offshore and oil and gas platforms and renewable energy devices.*



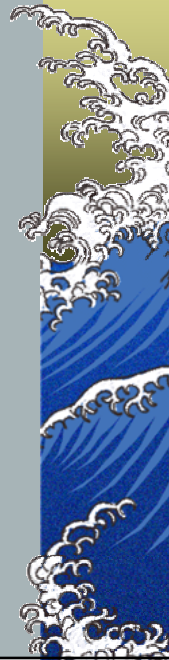
The research on marine environment at the School



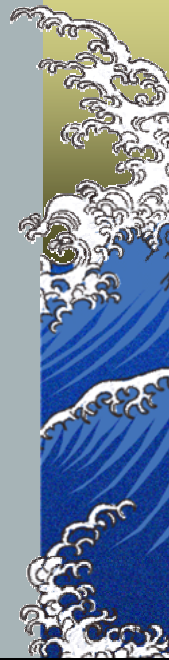
The research on marine environment at the School



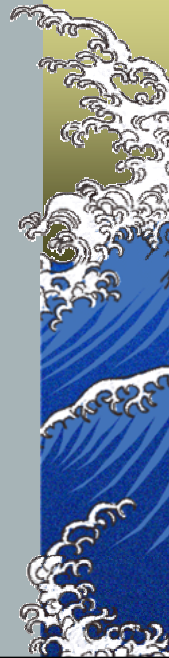
The research on marine environment at the School



The research on marine environment at the School



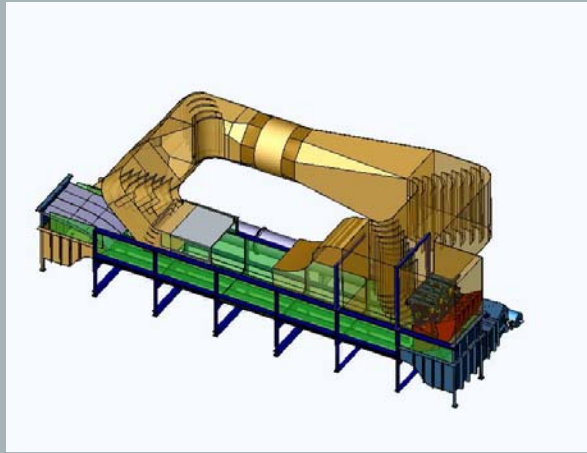
Laboratory Facilities



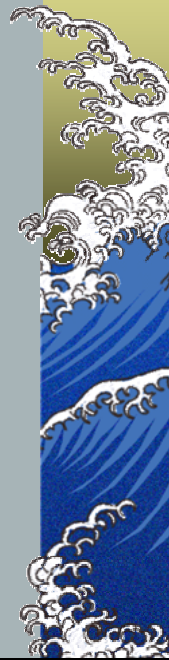
Laboratory Facilities



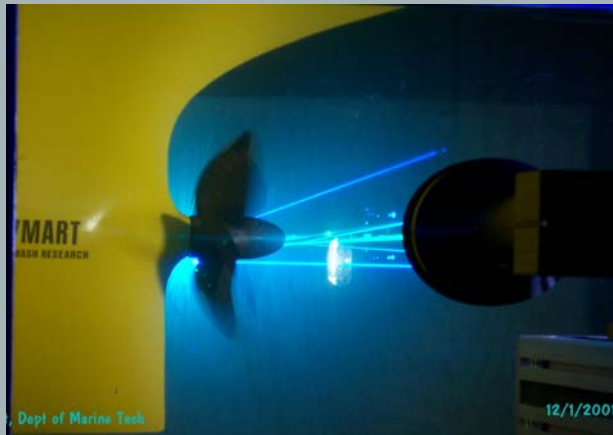
Laboratory Facilities



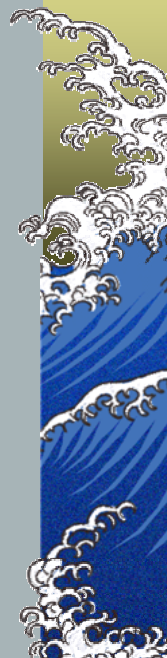
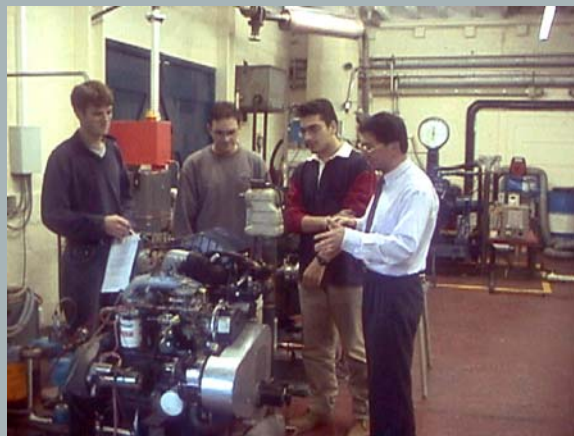
Laboratory Facilities



Laboratory Facilities



Laboratory Facilities



Laboratory Facilities



Conclusions

- ▶ *The current restructuring process has enabled us to establish the UK's first School of Marine Science and Technology at Newcastle*
- ▶ *This is a very timely opportunity to sustain and enhance our excellent position in research, and undergraduate and postgraduate student recruitment by addressing demand from the marine industry and prospective students*
- ▶ *The new School is now set to lead the marine field for another one hundred years.*

