

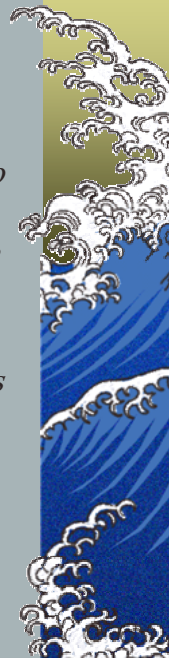
Establishment of the UK's First School of Marine Science and Technology

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*



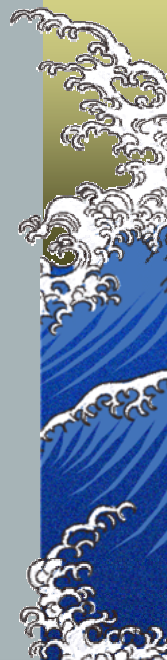
Importance of Marine Industries

- ▲ *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

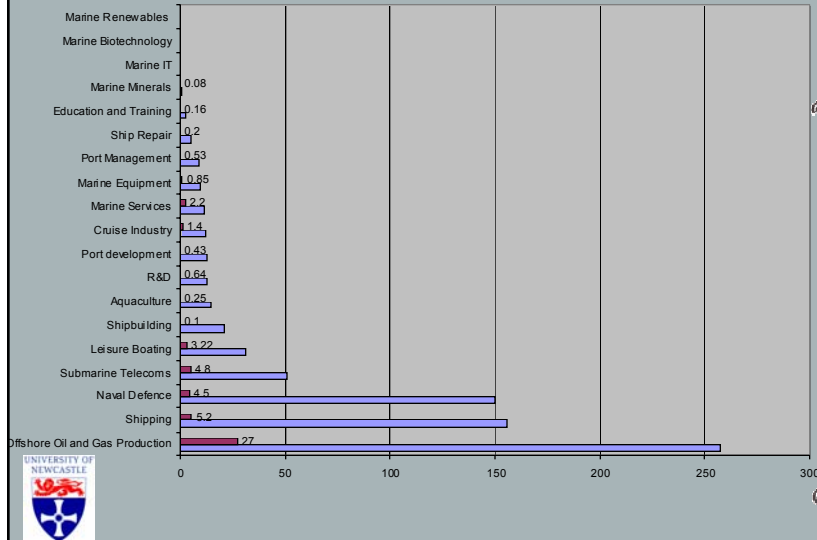


Importance of Marine Industries

- ▲ *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).*

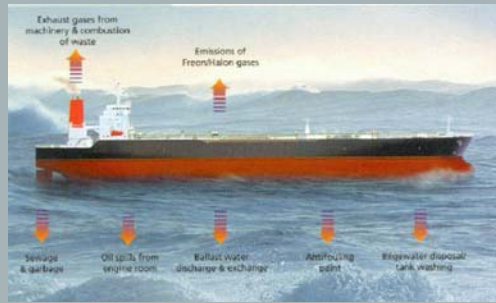


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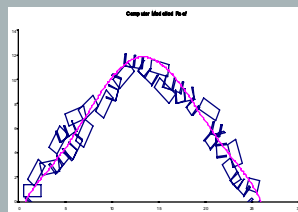
- ▲ *Development of technologies for reduced environmental impact from marine and offshore operations*
- ▲ *Development of technologies for the production of environmentally acceptable renewable energy*
- ▲ *Development of techniques for the assessment of impact on the environment and society from production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



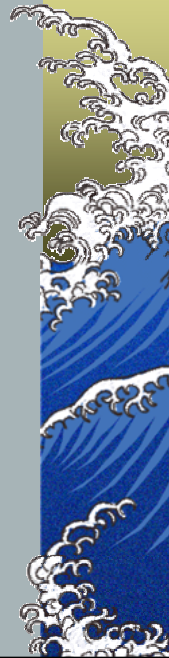
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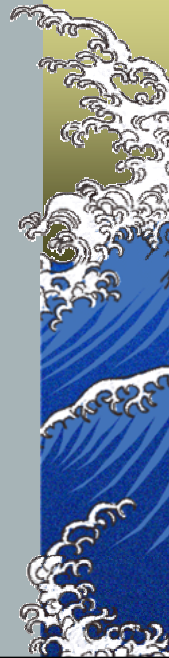
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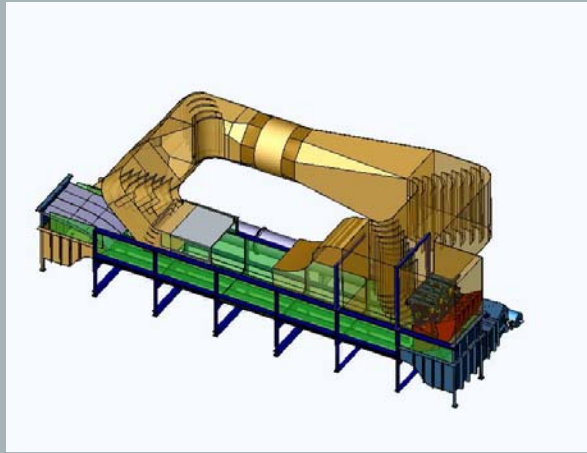
Laboratory Facilities



Laboratory Facilities



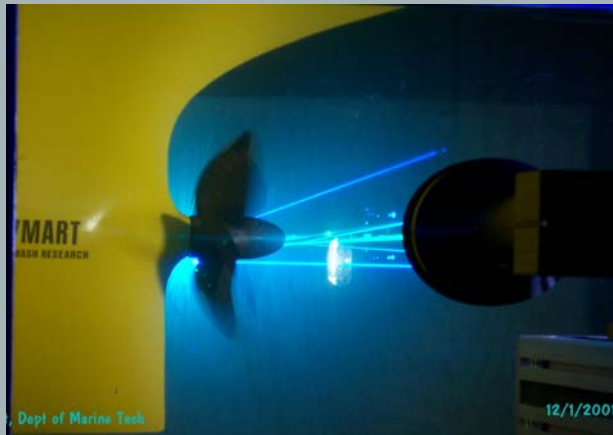
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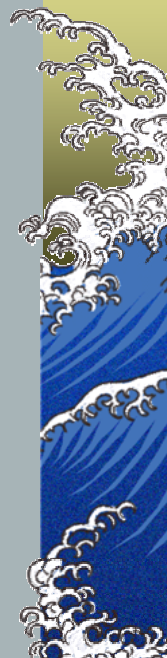
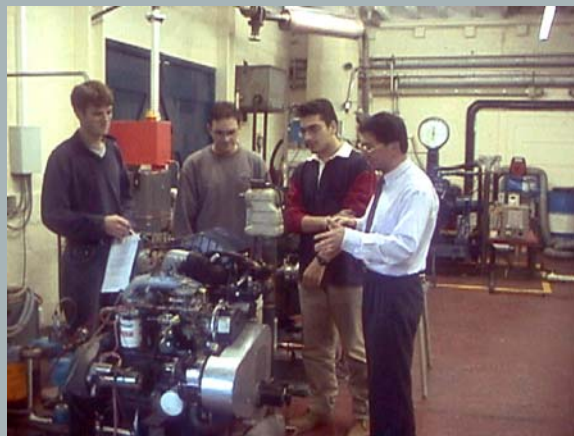
Laboratory Facilities



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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.*

