

World-Leading Maritime Research Opportunities to partner for FP7



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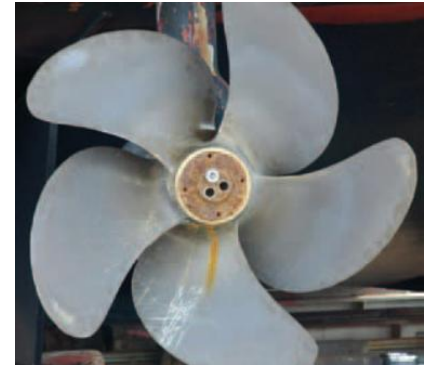
Over 200 researchers from 20 different subject areas are active in maritime research

- Ship design & naval architecture
- Fluid dynamics & acoustics
- Coatings & corrosion detection
- Oceanography & earth sciences
- Transport efficiency
- Maritime law and archaeology



Strong track record in EC Framework Programmes

- Consistently ranked in the top ten amongst UK Universities
- Currently 10% of our funding comes from Europe
- This year we are looking to partner in the following areas:
 - Green vessels for efficient logistics chain
 - Human element factors in shipping safety
 - Innovative Materials for Shipping
 - E-Guided Vessels: the ‘Autonomous’ Ship



Innovative Materials for Shipping

- **Sustainable Composite Research**
 - comparing sustainable composites (Jute, Hemp, Flax + Castor oil) to glass / epoxy including hygrothermal ageing & structural performance testing
- **Tribology & Coatings Research**
 - Innovative coating solutions, corrosion monitoring and anti-fouling

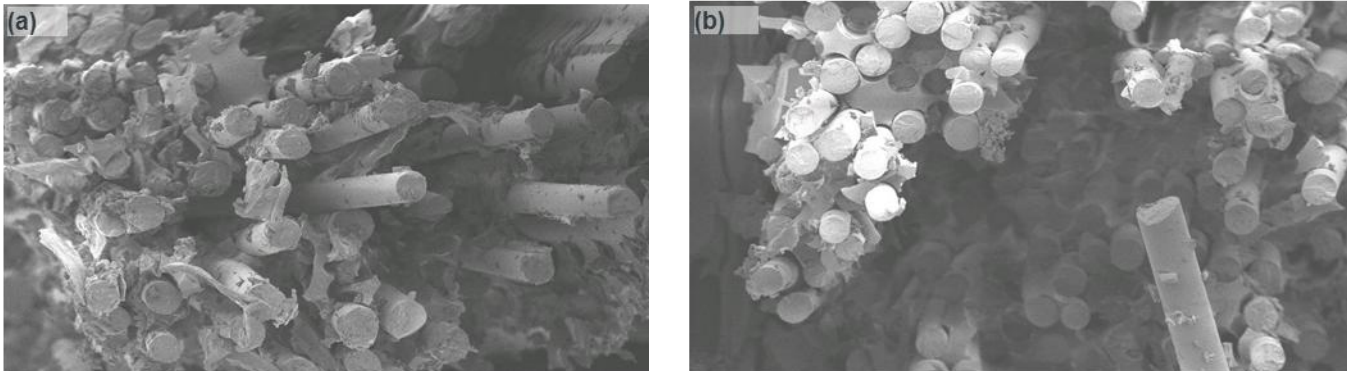


Fig 2: SEM image of tensile failure of glass/epoxy composite
(a) prior to and (b) 3 weeks after immersion.

E-Guided Vessels: 'Autonomous' Ship

- Institute of Maritime Law can assist with legal issues re:
 - Seaworthiness
 - Agony of the moment & resilience
 - Duty to maintain vessel, Exclusions & Limitations
- Southampton has led on UAV, AUV and autonomous space system development
- Southampton sailed an autonomous ship from Fair Isle to Newcastle upon Tyne in 2005



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