



Case Study | Knowledge Transfer Partnership

## Geotek Ltd

Award-winning Knowledge Transfer Partnership project creates unparalleled capabilities for sampling and testing of pressurised sediment cores.

Knowledge  
Transfer  
Partnerships





Pressurised sediment cores being prepared for analysis.

# Geotek Ltd

## About the project

The overall objective of this Knowledge Transfer Partnership (KTP) was the development of an apparatus to allow sub-sampling and testing of pressurised sediment cores from the challenging deep ocean environments where gas hydrates form. Wedding the academic expertise of the Faculty of Engineering and the Environment at the University of Southampton with the engineering problems of industry partner Geotek Ltd, the associate, Matthew Druce, was able to produce a pressurised transfer and subsectioning system for intact cores at in-situ stresses. Subsequently Matthew was able to integrate the transfer system into an advanced laboratory test apparatus for determining the physical characteristics of sediment cores. Such technological developments have provided Geotek with unparalleled capabilities in the field of pressure core non-destructive analysis and advanced mechanical testing. The new capabilities produced by the KTP have also led to job creation at Geotek, as well as increased market share and an increase of hundreds of thousands of pounds in annual sales.



## About the partner

Geotek specializes in high-resolution, non-destructive analysis of geological cores. They have supplied a range of Multi-Sensor Core Logger (MCSL) systems for over 20 years, using a suite of geophysical and geochemical sensors, providing equipment sales and services to science and industry worldwide. A team of talented individuals at Geotek design and build instruments while also offering core analysis consultancy field services (onshore or offshore) with an unmatched level of expertise and experience

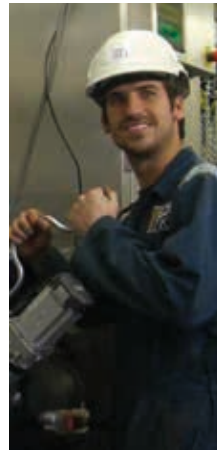
With this addition to Geotek's product range, they can now provide comprehensive non destructive and mechanical testing services to the pressure core analysis industry. This has provided a strategic and exclusive advantage for the company, leading to an increased market share, higher profits and job creation. For more information on the products and the services Geotek provide please visit: [www.geotek.co.uk/services/pressure\\_core\\_analysis](http://www.geotek.co.uk/services/pressure_core_analysis)

## Business leader of tomorrow

Matthew Druce was selected as one of the UK Knowledge Transfer Partnership's Business Leaders of Tomorrow for 2011. One of only five KTP associates to be awarded this honour, Matthew impressed the selectors with the execution of his successful project to subsample pressure cores in the Pressure Core Analysis and Transfer System (PCATS) and then perform advanced geomechanical testing on the never-depressurized samples using the newly developed PCATS Triaxial system.

Selectors cited his technical, managerial, and communications skills which allowed him to deliver the design, build, and testing of the PCATS Triaxial project on schedule and within budget. Now that Matthew's KTP project is over, Geotek welcomes him back as the new Production Manager for MSCL-related equipment. Good job Matt!

[www.geotek.co.uk](http://www.geotek.co.uk)



## Academic Excellence

Our world-leading engineers work at the cutting edge, developing solutions to some of the key issues facing society. Our vibrant research community is multidisciplinary in nature and led by internationally renowned academics working at the forefront of their fields.

We provide support to industry through leading-edge research projects, consultancy, knowledge transfer, use of our state-of-the-art facilities and commercialisation of research.

## What can KTP offer your business?

By participating in a KTP you can:

- Access qualified people to spearhead new projects
- Access experts who can help take your business forward
- Develop innovative solutions to help growth
- Develop your business for today's market
- Increase your competitive advantage and profitability
- Improve your performance/business operations

Business performance outputs vary considerably from case to case, given the variety and type of projects. Latest information shows that, on average, the business benefits that can be expected from a single KTP project (typical duration 1-3 years) are:

- An increase of over £240,000 in annual pre-tax profits
- The creation of two genuine new jobs
- An increase in skills of existing staff