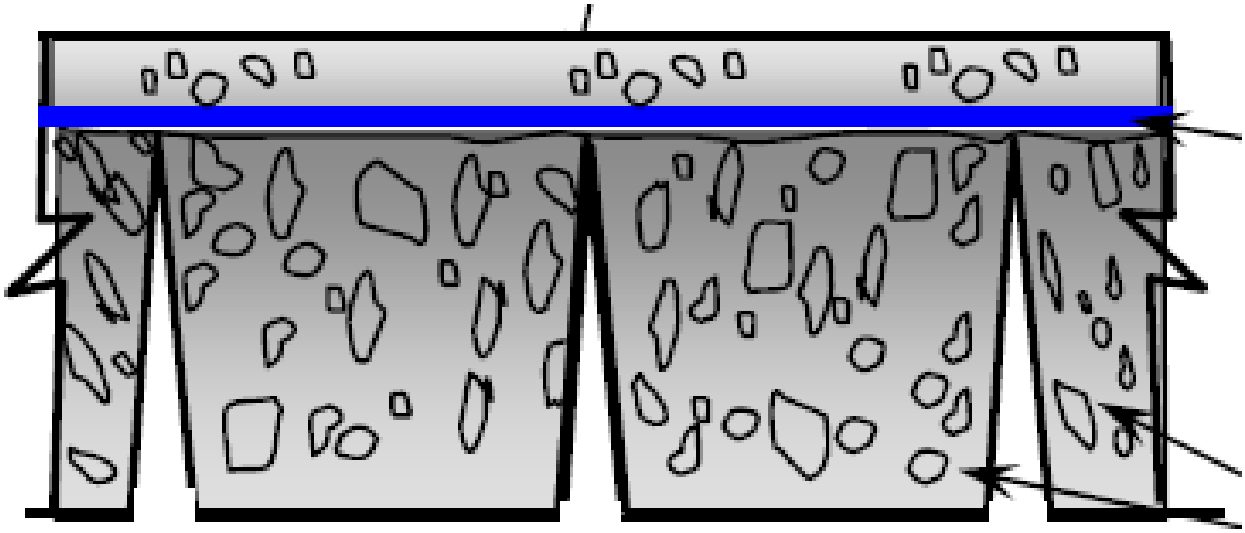
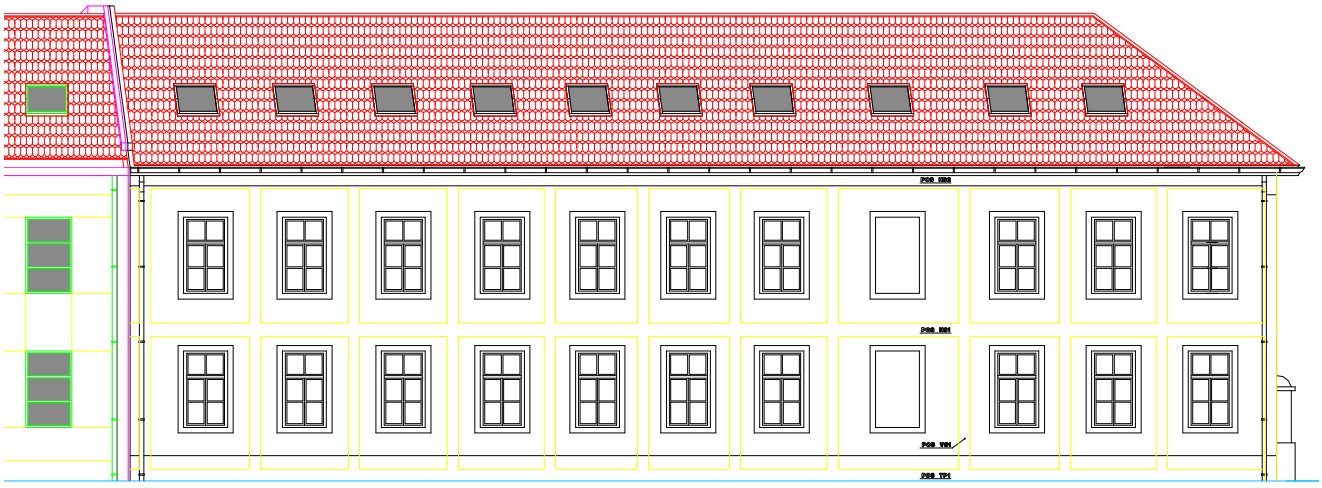
Structural Faults & Repair-2010

13th International Conference

EXHIBITION SHOWGUIDE





www.structuralfaultsandrepair.com

Allied Associates Geophysical Ltd

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Contact Name Norman Bell

Allied Associates are Europe's leading supplier of geophysical and NDT equipment, and support our UK and overseas clients from our 3 International offices in Belgium, Germany and the UK. Established in 1988 we have a growing and diverse customer base that make use of our rental, sale and equipment servicing services.

At Structural Faults and Repair we will have on display the GSSI Palm antenna, 2.6-Ghz high frequency antenna and StructureScan Mini, the new hand held inspection radar system.

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Amphora NDT Limited

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250 word text profile of your expertise, services/equipment etc

Amphora NDT Limited
//Future Testing Technology Implemented Today
Amphora NDT Ltd are manufacturers and suppliers of in situ testing and monitoring systems, which can be used to assess the strength and durability of structures and materials on site. The company is led by highly qualified professionals, with many years of research experience in the area of non-destructive testing and monitoring of structures for assessing their durability.
We manufacture and supply a range of testing and monitoring instruments for the construction industry and the following are available:

- Autoclam permeability system for measuring the air and water permeability and water absorption (sorptivity) of concrete, stone masonry and other porous materials.

- High pressure water flow Autoclam system, which enables the determination of the coefficient of permeability of normal and high performance concretes, irrespective of their moisture content at the time of testing.
- Permit ion migration test to measure the ionic transport resistance of building materials.
- Limpet pull-off tester for assessing the bond strength of concrete patch repairs and in situ strength of concrete cover.
- Electrical sensors for monitoring the degree of hydration of cementitious materials, ingress of water and water-borne salts and advance of carbonation front in concrete.

We undertake the appraisal of existing structures for durability using both in situ tests and embedded sensors. For new constructions, we install exposure-specific durability sensors so as to provide data which can be used to predict their service life.

●●

Bridge design & engineering

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Contact Name Helena Russell

Bridge design & engineering is the only international magazine to focus on the design, construction, management and maintenance of bridges around the world. Launched in 1995, the quarterly publication and its subscriber newsletter Bridge update is an essential read for bridge owners, designers, builders and managers, and offers unrivalled coverage of major projects, technical developments and innovative designs around the globe.

●●

Cintec International Ltd

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Contact Name John Brooks

250 word text profile of your expertise, services/equipment etc

The Cintec anchoring system offers almost limitless possibilities for strengthening, stabilising, anchoring and repairing masonry and other structural elements in buildings.
Whether the goal is to solve an existing problem or to prevent future ones, the Cintec anchoring system can prevent failure from many types of peril: fire, earthquakes, freeze-thaw cycles and weathering.
Its versatility shines in applications for anything from residential high-rises and industrial plants—including nuclear power stations—to institutional buildings and heritage jewels. Customised design solutions, often in combination for a single project, can include stabilising chimneys, fixing detaching bay

windows, repairing vertical shear and subsidence cracks, tying delaminating wall skins to a main structure, and repairing failing archways.
Why demolish or dismantle and rebuild? The Cintec anchoring system can help restore and maintain structural integrity of a building, with minimal intervention and generally quick installation.

BASF Construction Chemicals (UK) Ltd

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Contact Name: Ian Wilson, Marketing Manager

Company Profile

Prestigious new-build and refurbishment projects rely on materials from BASF Construction Chemicals for performance and durability, from composite strengthening systems, comprehensive waterproofing systems and cathodic protection to sealants, coatings, concrete repair materials and grouts.

Under the THORO® brand, BASF Construction Chemicals offers unique, patented, spray applied, polymer modified, conductive, cementitious anode, THORO® CP Anode 60. Based upon a specially formulated, polymer modified, sprayed cementitious mortar the impressed anodic current is efficiently and evenly distributed over the whole surface of the structure to be protected.

BASF exciting new generation of concrete repair mortars with outstanding characteristics – EMACO® Nanocrete – is proven to exceed all the technical requirements of BS EN 1504, guaranteeing performance levels by providing reference to identification and performance tests for a standardised approach to the design and execution of concrete repairs. The improved cementitious Nano-structures of Nanocrete improve the properties of the hardened mortar, giving durability and technical performance.

BASF's systems for structural faults and repairs include MBrace® composite strengthening systems. More than simply an economical, field-proven technology for structural strengthening, MBrace® provides single source support from specification through to completion.

MBrace® offers superior strength and resistance to corrosion while being aesthetically unobtrusive, and causes little disruption during installation. Reinforcements are made of uni-directional (UD) fabrics and tows of fibres of pultruded plates for which all the reinforcing fibres are in the same direction. This gives the required additional tensile strength and stiffness in the same direction as those already provided by the steel reinforcing bars inside the concrete.

Concrete Repairs Ltd

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Contact Name : John Drewett

Company Profile for Concrete Repairs Ltd

Concrete Repairs Ltd (CRL) has over 50 years experience in the construction industry and is one of the leading specialist contractors in the UK offering a comprehensive service to inspect, repair and strengthen buildings and structures.

The survey division, CRL Surveys, is able to inspect structures to determine the nature and extent of deterioration and provide a detailed report with repair recommendations and budget costs.

CRL are specialists in the repair of reinforced concrete using the latest techniques fully compliant with the European Standard EN1504. This service includes the design and installation of cathodic protection systems for corrosion control in accordance with European Standard EN12696.

The Company also specialises in the use of FRP composites both for strengthening existing concrete, steel and cast iron structures and for new construction. It was the first company to use composites for structural strengthening in 1996 and has recently completed one of the first fully composite new bridge decks for Network Rail.

John Drewett, CRL Director, is presenting two papers at the conference on the replacement of bridge bearings and the repair of a Grade 1 listed bridge using an impressed current cathodic protection system.

CRL operates throughout the UK with five regional offices. It also has an office in Abu Dhabi and works worldwide on specialist schemes.

For further information on the papers presented at the conference and the range of specialist services which CRL provides please visit our exhibition stand.

The Concrete Society

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Contact name: Paul Golden (Commercial)

THE CONCRETE SOCIETY is dedicated to supporting the use of concrete; the most versatile of structural materials and the most widely used building material in the world.

An independent organisation providing comprehensive technical advice, professional standards and qualifications, The Concrete Society ensures that the application of excellence in concrete specification,

design, construction and performance is maintained and enhanced at all levels. Established in 1966, The Society encourages innovation and the exchange of knowledge and experience across all disciplines.

Membership is international and provides great value as there are many valuable benefits whether you join as a corporate or individual member – it also provides exclusive access to a member's only area on our website.

Providing a comprehensive range of services and products including technical advice through the unique and highly respected Concrete Advisory Service The Society also publishes a broad portfolio of technical publications together with its monthly magazine 'Concrete' and is developing a major education and training initiative including a package of accredited qualifications designed specifically for the concrete industry.

Recognised as one of the most prestigious awards events in the construction industry and presented annually since 1968 the Concrete Society Awards continue to encourage projects that show innovation and excellence through the use of concrete with over 500 awards having now been given.

For more details about The Concrete Society and our portfolio of services and products visit www.concrete.org.uk.

To buy Concrete Society technical publications visit www.concretebookshop.com

Elsevier

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Contact Name: Noel Blatchford, Publisher, Civil Engineering

About Elsevier
Elsevier is a world-leading publisher of scientific, technical and medical information products and services. The company works in partnership with the global science and health communities to publish more than 2,000 journals, including The Lancet (www.thelancet.com) and Cell (www.cell.com), and close to 20,000 book titles, including major reference works from Mosby and Saunders. Elsevier's online solutions include ScienceDirect (www.sciencedirect.com), Scopus (www.scopus.com), Reaxys (www.reaxys.com), MD Consult (www.mdconsult.com) and Nursing Consult (www.nursingconsult.com), which enhance the productivity of science and health professionals, and the SciVal suite (www.scival.com) and MEDai's Pinpoint Review (www.medai.com), which help research and health care institutions deliver better outcomes more cost-effectively.

A global business headquartered in Amsterdam, Elsevier (www.elsevier.com) employs 7,000 people worldwide. The company is part of Reed Elsevier Group PLC (www.reedelsevier.com), a world-leading publisher and information provider, which is jointly owned by Reed Elsevier PLC and Reed Elsevier NV. The ticker symbols are REN (Euronext Amsterdam), REL (London Stock Exchange), RUK and ENL (New York Stock Exchange).

EuroGPR

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If you are already a regular user of GPR or are thinking of using the technology, you should seriously consider joining the Association. Our members are based throughout Europe and are a mixture of GPR users, equipment manufacturers, universities and manufacturers' agents. We meet 3 times a year and our meetings include a technical presentation; the latest information on licencing issues; and the results of on-going work on acceptable standards of GPR survey work. Training is another "hot" topic. Our members have access to a sample training course in the reserved section of the website. A more extensive interactive course is in preparation and will be made freely available to all members. You also get the chance to meet your fellow practitioners.

In addition to the meetings, our Secretary keeps the membership up to date by e-mail with issues of common concern, including how to comply with current European legislation.

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Contact Name: Jamie Dempster

Global Commitment

Fibrwrap Construction announces its first United Kingdom office located in East Yorkshire.

Fibrwrap has regional construction centers on four continents, North America, South America, Europe and Asia. The African continent will be next with an office opening soon in Cairo.

Fibrwrap's services and Fyfe Company products have been used for over 20 years to strengthen thousands of structures across the globe, from Asia and North America to Latin America and Europe. The company has representatives in over 50 countries.

System Advantages

The Tyfo® Fibrwrap® Fiber Reinforced Polymer system is manufactured by Fyfe Company, LLC. It is a lightweight, versatile high-strength advanced composite used to strengthen and provide protection for concrete structures.
Fibrwrap Construction is committed to providing turnkey, cost-effective retrofit to our clients, while ensuring service excellence, cutting-edge innovation and post-project support. We service a variety of client needs in a range of environments, including Industrial, Commercial, Government Facilities, Healthcare, Marine, and Residential.
Fibrwrap completes each new project quickly and efficiently, striving to minimize facility downtime and reduce disruption of daily workload. We promise flexibility required to meet your project goals—without impacting overall productivity.
Services

Tyfo Fibrwrap FRP Installation;
Concrete Retrofit of all structures including bridges, buildings, industrial complexes, power plants.
Marine Repairs of concrete, steel and timber, docks, piers, wharfs, above and below water.
Seismic Upgrades to all structures from offices to nuclear facilities
Pipe Repair to large and small diameter piping both internally and externally.
Epoxy Crack injection
Spall Repair and Corrosion Protection
Blast Mitigation

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Contact: Jenny Upwood or Chris Leech

Geomatrix Earth Science is a specialist supplier of geophysical instruments and software on a sale or rental basis. We represent many major geophysical instrument manufacturers, in particular Mala Geoscience for their extensive product range of GPR. We have qualified geophysicists and electronic engineers on staff to help you find the correct solutions to your problems and we can provide demonstrations and training on all equipment. Full details of our capabilities can be found at www.geomatrix.co.uk

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Goldhawk Restorations Ltd

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Goldhawk Restorations Ltd
Goldhawk Restorations is dedicated to the sympathetic rehabilitation and strengthening of masonry arch bridges and brings together considerable bridge engineering experience and expertise. Following a structural survey, we use our established and highly regarded ASSARC computer analysis to undertake bridge assessments and MARSYS state of the art software to design the necessary optimised repairs and reinforcement. Combined with well proven stainless steel products and non-disruptive concealed installation techniques, our innovative system provides effective and reliable solutions that enable bridges to meet modern requirements by increasing their load bearing capability to 40 tonnes.

The Goldhawk system, which has been independently tested by the TRL, offers many clear benefits. It improves structural behaviour and increases strength without added stiffness by permitting normal structural movement. It allows staged, sequential installation with minimal disturbance to the bridge fabric, retaining its visual appearance and making it ideal for listed or historic structures. It leaves hidden services unaffected and causes minor inconvenience to the public or disruption to road and rail traffic. We also undertake deck waterproofing and installation of concrete aprons or invert slabs to provide scour and flood protection.

We offer full turnkey packages from surveys, assessments and repairs to high standards of professional installation and complete project management, all backed by Professional Indemnity Insurance. We are committed to providing a first class service, offering advice and technical support and developing a close working relationship with our clients to deliver best value solutions that meet their needs and objectives, while ensuring peace of mind.

Geophysical Survey Systems, Inc

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Jami Harmon

Geophysical Survey Systems, Inc. (GSSI) is the world leader in the development of ground penetrating radar. With cutting-edge products designed to address the most challenging applications, the GSSI name has become synonymous with accuracy, quality and reliability.
GSSI's leadership in subsurface imaging equipment began with the introduction of the first commercial ground penetrating radar system in 1974. For nearly 40 years, GSSI has consistently led the industry with a series of "firsts" including the first digital GPR system, the first commercially available software

package designed to process radar data and the first high-frequency GPR system specifically designed to scan concrete.
Today, GSSI offers the market's broadest range of ground penetrating radar and electromagnetic induction equipment - covering a host of applications from archaeology and forensics, geology and environmental, utility detection and concrete inspection, to transportation infrastructure condition assessment.
In 2009-2010, we released a new horn antenna called the 4105 NR, a new horn antenna for the evaluation of roads and bridges. This new antenna employs patented interference reduction technology that allows noise-free operation in the presence of the common broadcast interference sources found in urban environments and along highways while improving the sharpness of the data.
We also released the StructureScan Mini, an all-in-one GPR system for concrete inspection. The StructureScan Mini locates rebar, conduits, post-tension cables, voids and can determine concrete slab thickness. This system features an easy user interface, a laser-positioning system and auto-target capabilities.
Stop by our booth for more information!

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Holequest Ltd

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BRIEF PROFILE OF SERVICES:

Holequest have gained an extensive experience over the last 35+ years in relation to various aspects of its core business, which consists of:

- Site Investigation (i.e. Ground Investigation Inc. Contamination & Marine)
- Well Drilling (Inc. Geothermal Heating)
- Stabilisation (Ground & Structural)
- Testing & Monitoring
- General Drilling, Etc

Over the last 35+ years Holequest have worked and consulted on a vast array of contracts throughout Scotland and the North of England in both the Private and Public Sector, developing effective methods of working to meet the needs of its customers.

Holequest also have the unique ability to make decisions and adapted quickly to assist its customers.

Holequest can provide an all-encompassing service, from Design to completion and have a good relationship with its associated and approved consultancy providers who can be engaged as necessary to enhance our service to meet the needs of the customer.

Holequest have recently installed equipment and provision for testing Energy Ratio in line with EN ISO 22476-3:2005, (in compliance with Euro Code 7) at our Premises to measure Ratios and effectiveness of Standard Penetration Test (SPT) Hammers.

Holequest own a high proportion of the Plant & Machinery used to carry out the required works and have continued to invest in new Plant & Machinery in recent years.

MALÅ Geoscience

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Contact Name: Mr. Mattias Johansson

MALÅ Geoscience

MALÅ Geoscience is the global leader in the design and manufacture of Ground Penetrating Radar (GPR) systems. We provide high quality, reliable and easy to use equipment to solve your subsurface investigation needs.

With over 70-years of professional experience, we understand the needs of our customers and have developed a versatile range of products that offer solutions across a broad range of applications. From non-destructive testing (NDT), concrete imaging, utility detection and mapping to geophysical investigations including borehole, MALÅ Geoscience has a GPR solution for you.

Please visit www.malags.com for further information.

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Contact Name Mr Rob Arnot

Olympus is renowned as the leading manufacturer and supplier of non-destructive testing and remote visual inspection equipment for engineering and maintenance applications throughout the world.

Olympus provides an industry-leading portfolio of testing technologies including ultrasound phased-array, eddy current, eddy current array, as well as the extensive range of IPLEX videoscopes, fiberscopes, borescopes, and the world class High Speed Video Camera.

Our range of NDT products are widely used for detecting potentially dangerous hidden corrosion and measuring remaining metal thickness in everything from heavy steel pipelines to aluminium aircraft skin.

At Structural Faults, Olympus will be showcasing our latest technologies, including the Epoch 1000 Digital Ultrasonic Flaw Detector and the IPLEX LX Portable Videoscope, weighing only 2.7kg.

Physical Acoustics Ltd

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Contact Name - Jon Watson

Physical Acoustics Ltd, part of the worldwide Mistras Group, provide a wide variety of material testing, inspection and structural monitoring services to engineers and over the last 10 years we have seen exceptional growth in demand. The Mistras Group now has over 40 offices in over 15 countries worldwide.

Physical Acoustics provide unique assessment services for reinforced concrete structures, post tension structures, suspension bridges, half joints, hinge joints, bearings, steel bridges and offshore platforms. Our techniques can detect and quantifying steel fatigue and cracking, concrete corrosion and microfracture, wire break and bearing deterioration.

Our services assist bridge and structure owners to identify real problems on their structures or to provide confidence in structural health. We specialise in short term assessments for most structures with long term monitoring solutions for higher risk assets.

We carry out Acoustic Emission, strain, vibration, displacement, rotation and temperature monitoring. Our inspection capabilities include ultrasonic’s (including manual A scan, TOFD, automated C-scan thickness mapping, shear wave), eddy current, ACFM, Impact Echo (for concrete flaws and cracking).

As well as being a service provider, we manufacture in house our own structural monitoring systems customised to your specific application. For further information see our websites at www.pacuk.co.uk and www.pacndt.com.

Pure Technologies Ltd

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Oliver Tozser, General Manager – Bridges & Structures

Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of physical infrastructure. From monitoring the health of large bridges to protecting pipelines, our technologies and expertise are being used around the world to help manage deterioration and reduce loss. Since 1998, our SoundPrint® acoustic monitoring systems have been used on some of the world's largest bridges to identify and locate corrosion so that the long-term integrity of these critical links can be assured.

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Strainstall are structural monitoring and testing specialists. We provide various systems and services to help engineers better understand the performance of structures.

Typically we use a variety of sensor technologies and are involved in the measurement and presentation of data related to strain, displacement, inclination (tilt), temperature, environmental conditions, acceleration (vibration).

The information obtained is often required to assist in the assessment of a structure, and may be used in conjunction with clients' finite element models.

We also design and provide automated systems, for long-term unattended monitoring of structural behaviour. These can have with their own power supplies (solar panels, fuel cells) and are generally fitted with a cellular modem, enabling remote communications. The data can be downloaded from site automatically and presented in the form of regular reports or displayed on our secure website.

In support of our work in the bridge engineering sector, we also supply the CrackFirst™ fatigue sensor. This device is suitable for steel structures, and monitors fatigue life.

Usually working through consulting engineers or main contractors, we have undertaken many projects on highway and railway bridges. Recently these have included extensive instrumentation and load testing for

Blackfriars Railway Bridge, large scale dynamic testing of Midlands Links viaducts and monitoring during bearing replacement at Orwell Bridge.

Our testing work for the building sector includes load testing of floor slabs, monitoring during structural alterations and vibration studies, all to the relevant standards as required. We also provide geotechnical instrumentation and monitoring systems.

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TRL is an internationally recognised centre of excellence providing world-class research, advice and solutions for all issues relating to land transport. Headquartered in a custom designed facility in Crowthorne in Berkshire, but with offices in Scotland, Wales and the Middle East, TRL employs around 420 staff, many of whom are world renowned experts in their chosen field.

Its Infrastructure division provides a level of knowledge and expertise that encompasses practical research and its application to provide evidenced based solutions across the industry sector. Expertise covers pavements, structures and geotechnics, including asset management, design and materials, safety and structural assessment.

TRL's structures capability includes expertise on their durability, in particular the durability of post-tensioned concrete bridges. Over the last decade TRL has installed and maintained acoustic monitoring systems on a number of post-tensioned concrete bridges in the UK to monitor them for wire fractures. This system has been used as part of an overall management strategy for structures where there is concern about the risk of corrosion and fracture of the post-tensioning tendons. The installation of acoustic monitoring systems has enabled the structures to remain in service and thus avoid their premature replacement and the consequent disruption costs.

Other key areas of work include road network and vehicle safety, traffic management, planning and control, ITS technology development and application, investigations and risk management, transport security, environmental consultancy and assessment, carbon footprint reduction, noise and air quality monitoring.

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Contact names: Mike Forde or Antonis Giannopoulos

- We specialize in NDT using radar (GPR), sonics and ultrasonics, impact echo and infrared thermography.
- We also specialize in Expert Witness work.
- www.GprMax.org is the world's most widely used "free to download" GPR simulation software – contact Antonis Giannopoulos.
- Latest research projects funded by EPSRC relate to "High Speed Rail"

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Utsi Electronics Ltd is an innovative UK based manufacturer and designer of Groundvue Ground Penetrating Radars (GPRs). The range of radars covers both general investigations and specialist applications.

General GPR uses include pavement, bridgedeck, utility, environmental, geological and structural investigations. Specialist GPR based tools, generally developed as the result of research collaboration, include adapted antennas for the detection of subsurface cracking and the measurement of crack depths; in-bore radars and very high frequency antennas for the early detection of delamination.

The Groundvue GPRs use twin arrayed antennas to reduce noise and clutter. They make optimum use of the frequency spectrum to produce a high signal to noise ratio, resulting in better depth penetration for the same frequency of antenna.

The multi-channel Groundvue 3 is unique in having simultaneously triggered antennas without cross channel interference. This allows very much faster speeds of data collection in multi-channel mode or when using GPS/Total station (equivalent to 1000scans/sec with all channels operational). Simultaneous triggering also allows automatic depth calibration during survey. Groundvue GPRs comply fully with current European legislation.

GPRs are available for purchase or hire and we can field experienced survey teams or recommend a reliable survey provider from our clients. The company provides training in GPR techniques, both for beginners and for more experienced users, including in crack depth detection.

Specialist design and research work is carried out in collaboration with European University and other Research Organisation partners. Technical enquiries for new GPR designs and developments are welcome.