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Geotechnica 2012 - The Review.

A review of this year's Geotechnica including the extremely successful and popular Geotechnical Conference, as well as the Evening Charity Networking Event, plus much more.



Water Supply Pipe Selection

Alcontrol's Senior Environmental Scientist Geraint Williams provides UKWIR Guidance on the Selection of Water Supply Pipes to be used in Brownfield Land.



Summer Is Finally Here

Emma Betts of EB Safety provides some 13 important advice for those of us working outdoors in the glorious British summer while it lasts anyway...



The Land of Opportunity

Move over USA - Qatar is the new Land of Opportunity. With the State's geotechnical demands growing by the day, Equipe are taking their flagship event Geotechnica to the Middle East - and they're inviting you to delve into the increasingly affluent Qatari market with them.



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Welcome

Welcome to Issue 13 of theGeotechnica, and the first in a line of new and improved editions of the magazine. Over the coming months we will be unveiling many exciting new developments regarding theGeotechnica, starting with this month's overhaul in design and appearance and hopefully building to a fully interactive, media-rich flipbook edition of the magazine, with video and audio content integrated seamlessly into the existing articles. We do this in the hope that we can make the experience of reading the-Geotechnica that much more enjoyable.

"...the Editorial Team here at theGeotechnica will be on the lookout for even more new, original and interesting content from all corners of the sector..."

Considering this, the Editorial Team here at the-Geotechnica will be on the lookout for even more new, original and interesting content from all corners of the sector, and would actively encourage all readers to come forward with even the slightest bit of appropriate and relevant content - whether it be a small news item or a detailed case study of works recently completed or being undertaken. If this content is media rich and interactive, then all the better. We are looking to increase the already large readership of the magazine through better social media integration and promotion, as well as improving content month on month.

As an introductory offer for the new and improved magazine, for any content that is submitted we will provide free advertising space, proportionate to the quality of content provided, for that single edition of the magazine. From then on, if you have submitted content, you will receive a discount on all further advertisements placed within **theGeotechnica**.

Turning our attention to this month's edition of the magazine, we have several interesting arti-

"The article reviews the success of the event, including the immensely popular Geotechnical Conference..."

cles. Firstly, as featured on our cover this month, we have a review of July's Geotechnica - Equipe's flagship event and the UK's Largest Geotechnical Trade Show and Exhibition. The article reviews the success of the event, including the immensely popular Geotechnical Conference, as well as the Evening Charity Networking Event which crowned the first Geotechnica Rocks Battle of the Bands Winner.

We also have a particularly relevant article from Emma Betts of EB Safety. This month, Emma gives advice on staying safe and protected whilst out on site in the rare moments of hot weather and sunshine that have been sweeping across the country. Although these moments of sunshine have been brief and intermittent, it is still vitally important to be aware of the risks of UV rays and the like. In addition to this, Geraint Williams of Alcontrol also imparts his advice on the UKWIR Guidance of the Selection of Water Supply Pipes to be used in Brownfield Land.

Finally, we take a look at the Equipe Group's latest venture as they prepare to take Geotechnica abroad for the first time. With November's Geotechnica ME rapidly gaining support and attention from an increasing number of companies, including the Qatari 2022 FIFA World Cup team, we ask the question: Why should you be interested in Geotechnica ME, and Qatar as a whole?

We hope you enjoy this month's edition of the magazine and are inspired to contribute your own content for the coming editions of **theGeotechnica**.

Editorial Team, theGeotechnica





The 4th and 5th of July saw this year's Geotechnica - the UK's Largest Geotechnical Trade Show and Exhibition - return to the Upton Estate Showground.

2012 marked Geotechnica's fourth appearance on the calendars of the geotechnical and drilling communities, with this year event bigger and better than all three of its predecessors. Throughout 2012 the Equipe Group had been working hard to ensure that this year's event built on the success of previous incarnations, using their contacts to bring in

"Geotechnica 2012 saw a large number of attendees that maintained the positive, productive and bustling atmosphere that Geotechnica has become synonymous with..."

the best possible speakers for the Geotechnical Conference, whilst also employing a smarter marketing strategy to generate greater visitor numbers for the event. On reflection, it is safe to say that that hard work paid dividends, with increased visitor numbers and a very impressive roster of speakers.

Despite Mother Nature's best efforts, Geotechnica 2012 saw a large number of attendees that maintained the positive, productive and bustling atmosphere that Geotechnica

has become synonymous with since the events conception in 2009. Heavy rainfall on the Tuesday and Wednesday gave way to sunshine on the Thursday that was met with many sets of grateful, open arms. The rainfall on the first day of the exhibition was not enough to dampen the spirits of the many exhibitors and visitors, with large amounts of business being done and productive discussions being had. In fact, any rainy-day-blues that were to be had on the Wednesday were swiftly forgotten by the time the Evening Charity Networking Event came around.

For the first year, the Networking Event on the Wednesday of Geotechnica featured a Battle of the Bands contest, sponsored by Geotechnica Observations. Battling it out for the Winner's Trophy were Chaindogs, Indigo

Wolf and The Patsy Gamble Band. After three thoroughly entertaining sets, The Patsy Gamble Band came out on top and were presented with their trophy by a representative of sponsors Geotechnical Observations. The evening also featured a hog roast provided by The Pig on the Hill, as well as a cold buffet and a well-stocked drinks bar - all of which were greatly received by all that attended. Fortunately, the high

"The conference speaker programme featured many names that were and still are at the top of their respected fields..."

spirits raised during the Networking Event appeared to usher in better weather for day two of the event, with the rain and wind giving way to sun-



Above: Great attendance at the Geotechnical Conference.

Below: Visitor numbers are up on last year's figures.

Geotechnica 2012 - The Numbers:

2 Days.

67 Exhibitors.

14 Demonstrations. 1 Hog Roast.

19 Speakers.

shine and blue skies.

The conference speaker prothat were and still are at the Professor Rory Mortimore, LQM and former Professor of Geoston University - Professor Edconference did not fall prey to cess. its own hype, with all of the 19 educational and entertaining from all exhibitors and

5 Sponsors.

3 Bands.

638 Attendees.

talks that not only educated the observers, but also sparked discussions and debates that gramme featured many names are vital to the continuing development of our industry. top of their respected fields, With almost every single one of names such as ChalkRock Ltd's the talks filling the conference marquee to maximum capacity, Ltd's Professor Paul Nathanail it is obvious that the conference programme was well retechnical Engineering at King- ceived, with the presentations one of the main forces behind die Bromhead. Fortunately, the Geotechnica's continued suc-

speakers delivering insightful, Overall, the general consensus



"Rest assured, Geotechnica 2013 will continue on from the success of this year's event..."

attendees was that the event was a resounding success. The Equipe Group would like to take this opportunity to thank all of those that exhibited, presented and attended this year's Geotechnica, and helped make it the most successful event yet. A special thank you must also be extended to this year's sponsors: Geotechnical Engineering, Geotechnical Observations, Clear Solutions, Rockbit UK and DuraDeck.

Plans are already being made for next year's event, alongside Geotechnica's first escapade abroad to Qatar in November of this year for Geotechnica ME. Geotechnica 2013 will again be held on the Upton Estate Showground, this time on the 3rd and 4th of July.

Rest assured, Geotechnica 2013 will continue on from the success of this year's event, whilst maintaining and building upon its set of base principles: Communicate. Promote. Network. Learn.

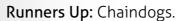


Above: Networking at the Evening Event











Runners Up: Indigo Wolf.



Winners: The Patsy Gamble Band.



8 _____9

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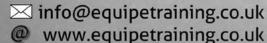


Soil Description Workshop 12th October & 30th Novemeber Rock Description Workshop 19th October & 7th December Basic Foundation Design (in accordance w/ EC7) 14th December





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WATER SUPPLY **PIPE SELECTION**

<u>Alcontrol's</u> Senior Environmental Scientist **Geraint Williams** provides UKWIR Guidance on the Selection of Water Supply Pipes to be used in Brownfield Land.

UKWIR (UK Water Industry Research) published the above document, which prompted the withdrawal of the Information and Guidance Note 9-04-03, Laying Pipes in Contaminated Land, WRAS 2002 (Water Regulations Advisory Scheme). is to ensure that standard waover time, result in the pera customers tap.

The latest UKWIR document of buried water pipes. follows in a long tradition of extremely conservative guidance: UKWIR Guidance

WRAS Guidance

It was widely accepted that the original WRAS document, shortly after publication, was incomplete, outdated and inappropriate. In 2002, the WRAS threshold concentrations were The UKWIR guidance provides based on its predecessor, the threshold levels for the specifi- 1994 Foundation for Water cation of water pipes. The aim Research Guidance (FRA 0448 Laying Portable Water Pipeter supply pipes are not laid in lines in Contaminated Soil). The ground conditions that would, origins of the prescribed WRAS parameters could be traced all meation or degradation of the the way back to the 1983 ICRpipe and lead to a breach of CL threshold levels, based on the drinking water standard at gasworks contaminants - criterion not necessarily relevant to risk of permeation or corrosion

Fundamental problems persist with the updated UKWIR guidance. These have caused issues for consultants and laboratories. The report was the output of a water industry-funded research programme. The document may need to undergo revision in the future. The UK-WIR guidance includes an extensive list of contaminants, which seems overkill. It refers to a staged process of investigation, involving a desk study, site walkover, preliminary risk assessment and investigation, but defaults to a mandatory analytical suite:

- Extended VOC suite by purge and trap or headspace and GC-MS with TIC
- +BTEX+MTBE
- SVOCs by purge and trap or headspace and GC-MS with TIC (aliphatic and aromatic C5-C10)
- + Phenols
- 2f. + Cresols and Chlorinated Phenols
- Mineral oil C11-C20
- Mineral oil C21-C40
- Corrosive (Conductivity,

Redox and pH)

Specific suite identified as relevant following site investigation:

- Ethers 2a.
- Nitrobenzene 2b.
- Ketones 2c.
- Aldehydes 2d.
- Amines

"As the outcome of the assessment is highly predictable, it would seem Conclusion reasonable to opt for barrier pipe and save money on any investigation costs."

Data assessment of the above parameters forms part of the Site Assessment Report. Data supported threshold values are used to assist in the selection of pipe materials. The thresholds are so low that most brownfield sites are likely to fail the criteria. As the outcome of the assessment is highly predictable, it would seem reasonable to opt for barrier pipe and save money on any investigation costs. The document was subject to consultation within the water industry but little external consultation with the wider contaminated land community.

The guidance runs contrary to standard practice in terms of risk assessment. It refers to an extensive list of contaminants, many of which are unlikely to be present on the majority of sites in the UK. Because the analytes are non-routine, most large commercial laboratories only provide costs for conventional analyses. The generic groups still contain compounds

that do not belong within those classes (for example Benzo(a) pyrene is listed as a VOC). The guidance also specifies the analytical technique required for testing - there are many examples where this is inappropriately prescribed. Regardless of the differences between them, individual compounds are not considered separately instead they are summed into very broad groups.

If the new guidance remains in the current format, it could lead to much more extensive testing on potentially contaminated sites. However, in the majority of cases, where the cost of material, it is likely to lead to water companies adopting an overly conservative blanket approach and specifying barrier for all brownfield sites, regardcontaminants. This will generally increase the cost of development with no overall benefit. size development sites, allowing for a real options appraisal to be made. It is evident that barrier pipe has higher installation costs. The costs of future maintenance also need to be taken into account.

"There is an argument for an alternative, less conservative approach. Water companies have, for the most part, adopted the UKWIR guidance, albeit with important clarifications presented as supplementary guidance notes."

There is an argument for an alternative, less conservative approach. Water companies have, for the most part, adopted the UKWIR guidance, albeit with important clarifications presented as supplementary guidance notes. The indications are investigation exceeds the costs that certain water companies of installing a particular pipe are now willing to adopt a more pragmatic approach.

Selection of the suite for analysis should be based on the history and previous usage of less of site-specific levels of the site as well as accounting for contaminants that have the potential to impact the pipe. Guidance needs to be evidence The total costs (including the based, using a true risk assessfittings, etc) need to be closely ment approach. Such guidance reviewed in relation to different should refer to latest research on permeation characteristics of contaminants, thickness of plastic pipe, residence time and attenuation factors as well as seeking to ensure broader consultation (AGS, EIC, consultants, environmental labs).



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SUMMER IS FINALLY **HERE**

Emma Betts of EB Safety provides some important advice for those of us working outdoors in the glorious British summer - while it lasts anyway...

We all enjoy the sun and warm Some people are more liable to harmful to the skin and health. taken if: Over exposure to ultraviolet (UV) rays causes damage to the doors for most of the day are unfortunately at greater risk of developing skin cancers. Oc- and light coloured eyes casionally working in hot conditions, can cause overheating of moles and heat stress can occur when the body's means of controlling Sun burn is a clear sign that

"There are both short and long term dangers to prolonged exposure to the sun."

British summer is here at last There are both short and long and despite the recent wet term dangers to prolonged exweather and flooding I am ever posure to the sun. In the short optimistic that we will even- term sunburn can be very paintually have some hot, sunny ful, causing the skin to redden, weather! With this in mind we blister and peel. Even mild redat EB Safety thought some ba- dening of the skin is a sight of sic information and advice on skin damage. In the long term avoiding the dangers of over too much sun speeds up the exposure to the sun and heat aging of your skin, it can bestress would be useful espe- come leathery, mottled and cially for those of us who work wrinkled, but more seriously it outdoors for long periods of can increase the risk of developing skin cancer.

weather it makes us feel good, develop skin cancers than othbut too much sunlight can be ers; particular care should be

- You have fair or freckled skin and people who work out- skin that doesn't tan easily or goes red before tanning
 - You have red or fair hair
 - You have a large number

its internal temperature start to UV radiation has damaged the genetic material (DNA) in your skin cells. Skin cancer can occur due to the damaged DNA causing cells to start growing out of control. The risk of melanoma (the most serious type of skin cancer) is tripled by getting painful sunburn even just once



every two years.

There are two major types of UV rays that damage the skin; these are UVB which is responsible for the majority of sunburns and can cause skin cancer and UVA which penetrates deeper into the skin. This type of UV ages the skin but contributes much less towards sun-

Here are some simple steps to protect yourself:

Remember even if you are not fair or freckled the sun is at its strongest in summer for the 3-4 hours around midday and UV can filter through, even on cloudy days.

- Wear a hat! A hard hat will provide some shade for your head, so wear it!
- Cover up! Most ordinary clothing, long sleeves and jeans or overalls will stop most of the **UV** ravs
- Keep your top on! Even if your skin tans easily, don't be tempted to have your top off especially around midday.
- Use sunscreen creams of sun protection factor (SPF) rating of 15 or more which protects against UVA and UVB

"Up until the age of 18 it is normal for new moles to appear, but after that for any growths..."

Regularly check your skin for changes or newly formed moles or any other skin discolouration. An early warning sign is often a small scabby spot that doesn't heal after a few weeks. Up until the age of 18 it is normal for new moles to appear, but after that age you should look out for any growths on the face, especially around

the nose and eyes or backs of your hands. If you notice any of these signs you should consult vour doctor.

- Stay in the shade whenever possible, especially at break and lunchtimes
- Drink plenty of water to avoid dehydration.

"Dehydration can severely affect your ability to function safely in hot conditions. When working in hot conditions you should consume about 1 pint of water every 20 minutes..."

Dehydration can severely affect your ability to function safely in hot conditions. When working in hot conditions you should consume about 1 pint of water every 20 minutes, but be aware that thirst is not a good indication of dehydration. If you are thirsty you have already started to suffer the effects of dehydration. Drink plenty of water, avoid tea, coffee and carbonated drinks.

Heat stress occurs when the age you should look out body's means of controlling its internal temperature starts to fail. A combination of air temperature, humidity, work rate and clothing can lead to heat stress. The body reacts to heat by increasing the blood flow to the skin's surface and by sweating. This results in cooling as sweat evaporates from the body's surface and heat is carried to the surface of the body from within by increasing blood flow.



Above, Right and Below: The sun may be shining, but protecting yourself is the priority.





"Heat stress can affect individuals in different ways and some are more susceptible to it than others."

Heat stress can affect individuals in different ways and some are more susceptible to it than others. Typical symptoms include:

- Lack of concentration.
- Muscle cramps.
- Heat rash.
- Severe thirst, a late symptom of heat stress.
- Fainting.
- Heat exhaustion.
- Heat stroke hot dry skin, confusion, convulsions and eventual loss of consciousness.

While heat stress is more common due to hot environments created by a work process or in restricted spaces it is something to be aware of in extreme hot conditions outdoors as well.

In conclusion these are the six do's and don'ts to avoid the dangers of over exposure to sun and heat stress:

- Do keep your top on to protect yourself from the sun's harmful rays.
- Do wear a hat that covers the ears and the back of your neck.
- Do take regular breaks and try to stay in the shade at break and lunch times.
- Do not forget to drink plenty of water to avoid dehydration.
- Do use a high factor sunscreen SPF15 or more on exposed skin.
- Do not forget to regularly check your skin for any unusual moles or spots. See a doctor promptly if you find changes to existing moles or your skin.

Finally, do enjoy the sunshine with care; you never know when it will start raining again!

Job Opportunities in New Zealand

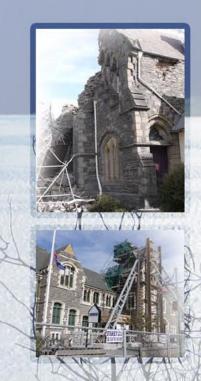


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Equipe is the sole agent for a geotechnical consultancy based in Auckland, New Zealand who are looking to set up an office in Christchurch to play an active role in the rebuilding of the city. There are a number of positions which we require to fill and details are provided below. The consultancy wishes to employ engineers from the UK to staff the office and for the right individuals to join the company on a permanent basis. This is a really exciting opportunity for anyone who wants to be involved with rebuilding one of the world's major cities in a vibrant and diverse country.

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For more information on great opportunities, send a CV to: pete.reading@equipetraining.co.uk



On the 6th and 7th of November this year, the Equipe Group will take their flagship event Geotechnica to Doha, Qatar. The event will follow in the footsteps of its UK originator, with exhibitors from around the globe gathering for a Geotechnical Conference and Exhibition. So why should you travel 3,500 miles to ambitions - driven by the be there?

Qatar is a Gulf State but unlike others it is enjoying an economic boom. It has the fastest before the award of the World growing economy of any country in the world with a staggering 16.3% growth in GDP in velopment to be completed by 2011, slowing to an expected growth of 7.1% this year - and this from a country with a pop- huge gas reserves. ulation of 1.6 million.

"Even before the award of the World Cup, Qatar was working on a master plan for sustainable development to be completed by 2030."

award of the 2022 FIFA World Cup, as well as its own desire to improve the standing of the State in the world market. Even Cup, Qatar was working on a master plan for sustainable de-2030. The funding for this rapid growth is financed by oil and

Almost every part of the capital This small Gulf State has big and its outlying areas is under-

going development; many of these developments are challenging and innovative. Currently works are well underway with the construction of a new airport and dock facilities. The airport is being constructed on reclaimed land adjacent to the existing airport whilst the docks are being excavated to form a new large basin. it seems that whatever is created in Qatar, the easy way is not an option. Instead they are choosing to look for imaginative and innovative design in order to impress the rest of the world.

In order to host the 2022 World Cup, Qatar has embarked on a programme of building nine new football stadiums and upgrading three others. These stadiums will not be any ordinary arenas. The games will be played during the hottest period of the year where temperatures will regularly soar to the mid 40's and peak at a sweltering 50 degrees centigrade - or thereabouts. It is therefore planned that all stadia will be completely air conditioned with the air conditioning powered by solar power.

Of course in order to host the Cup, Qatar will need an infrastructure to support the event, for this it is planned to improve the existing road network with motorways to each of the stadia and connecting onward to Saudi Arabia. Some of these are already under construction, with the others planned to be completed well before 2022. At the same time Qatar

tends to be very variable with large solution features and include a 6km long shopping voids. Weathering also tends mall, an Education City with a to be very variable. Tunnelling state of the art university, a culin these ground conditions is tural centre, and a new convenextremely challenging, as are tion centre. This is in addition to the site investigation works be- a business hub, West Bay which ing carried out to find the voids aspires to produce a skyline to and weaker zones of limestone. match any around the world. These site investigations use a combination of geophysics and drilling to locate these voids up and tenders put together and weaker zones.

are being carried out at a very

Tourist Attraction: The Islamic Museum in Doha.

is embarking on an ambitious fast rate, which is stretching the to each of the stadiums.

depth of 50m below ground,

"Because of the deadlines, works are being rate, which is stretching the currently available resources in the State."

plan to build a metro system in currently available resources in Doha and high speed rail links the State. In recognition of this HE Hassan al-Thawadi, Secretary General of the Qatar 2022 The metro will be built at a Supreme Committee, visited the UK in January this year to beneath the congested city. heighten interest in the potential work amongst the UK civil engineering industry. The state is calling out for consultants carried out at a very fast and contractors to help them deliver their vision.

Understandably, it is going to take more stadiums, roads and a rail network to support the World Cup and in recognition The geology is generally quite of this there is an determined uniform with Eocene limestone drive to build hotels, training overlying shales of a similar camps, shops and leisure faage. However the limestone cilities. These projects, some of which are already underway,

Currently plans are being drawn for investigations and building contracts which will stretch the Because of the deadlines, works current resources to its limit.

"One site investigation project currently being drawn up will require the total current availability of rigs in the State to drill on one project..."

One site investigation project currently being drawn up will "Qatar and its capital require the total current availability of rigs in the State to drill on one project for three years. Clearly further resources will be needed to meet the challenging deadlines and pace of construction. With so much corners will be cut just to meet deadlines however there is a real desire by everyone involved in the process to deliver high quality design and construction. This was very much part of the message from HE area and superb facilities. Hassan al-Thawadi that Oatar engineers who can deliver high collaborative way.

With the UK economy looking cosmopolitan feel located on very flat for the foreseeable future Qatar looks a very tempting market within which UK One word of warning, driving skills can thrive, so what better is not for the feint hearted but place to show off our expertise once you get used to a differthan Geotechnica ME in November?



Doha is a vibrant friendly country with a cosmopolitan feel located on the blue waters of the Gulf..."

going on there is a danger that The show will include a superb line up of speakers for the Geotechnical alongside an evergrowing list of trade exhibitors. The show will be held at the Grand Hyatt Hotel, a five star venue which has its own beach

reason that you should be conquality in an innovative and sidering visiting Qatar, however. Qatar and its capital Doha is a vibrant friendly country with a the blue waters of the Gulf and surrounded by a stony desert. ent driving style you can get around quite easily. There are four ring roads around Doha

so eventually you will end up where you want to be.

A real must for all is a visit to the Soug Wagif. We recommend that you soak up the atmosphere of a traditional market place where you can buy souvenirs, traditional Qatari dress, spices, perfume, jewellery and traditional foods, all amongst the narrow alleyways which make up the Soug. Sit in one of the many restaurants sipping tea and watch the world go by.

Alternatively you can take an is looking to enlist the help of Geotechnica ME is not the sole evening stroll along the Corniche, a broad tree lined promenade which circles the bay and provides a perfect view across the waters to West Bay and its towering skyscrapers. From the Corniche you can take a trip on a Dhow across the bay. Just off the Corniche you will find the Museum of Islamic Art, the building is a fascinating modern design and houses a fine collection of Islamic art which spans from the 7th century to the 19th century.

> All in all, there are many reasons to make the trip out to Qatar in November - not least of which to take part in and support Equipe's first venture into the international market. More details, including how to book your place at the event can be found online at www.geotechnicame.com.







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Tel: 01452 527743 Fax: 01452 729314

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