



Newsletter

June 2003

It's Official - Brisbane to host International No-Dig 2006

After a considerable amount of work by your Councillors and those shown in the caption under, the ASTT has successfully won the right to host the 2006 International No-Dig Exhibition and Conference in Brisbane.

The event will be held in October 2006 and it will most likely be held in the prestigious Brisbane Convention and Exhibition Centre, which is located on the Southbank. Some members may recall that the ASTT held its extremely successful 4th National Conference and Exhibition at the same venue back in September 1998.

There was fierce competition for this event from both India and Italy. Originally Brazil and the United Kingdom were also contenders. Brazil withdrew due to perceived political unrest in that country and the United Kingdom has changed its focus to No-Dig live events for the time being.

The Executive Sub Committee (ESC) of the International Board finally endorsed Brisbane as the host city after some very serious lobbying was undertaken during the recently held Las Vegas International Conference and Exhibition. The bid documentation that was put together for this event was of such a high standard, that it clearly covered all the key points that the ESC wanted



information on before any decision was made. It made their task easy.

A special thank you goes out to those who were responsible for compiling the very comprehensive bid documentation. The efforts of these people truly made the task a lot easier for the ESC to evaluate. These are from the back, excluding myself pictured back left, Catherine Reilly, Business Development

Manager of Intermedia Convention and Event Management, Melanie Anderson, Sales Manager of Brisbane Marketing, Andy Krumins, the Queensland ASTT Councillor, and in the front row, Lisa Sherwin, Business Development Manager of the Brisbane Convention and Exhibition Centre and Georgia Henderson, The Communications and Marketing Consultant from Brisbane Water.

Work will shortly commence in establishing the most critical component for running any successful event, the establishment of the Conference Organising Committee. Andy Krumins, Menno Hennevel and I will be meeting in Brisbane shortly to agree the ground rules and strategies to get the show on the road. We are once again in for an exciting time.

**Article by Jeff Pace
ASTT Secretary**

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Innovation Brings Root-Tight Security to Sewer Lining Projects

Preventing root ingress is one of the reasons for installing liners in deteriorated sewers. While sewer liners have proved effective, sealing where the liner is cut to make a lateral connection has to be addressed if a sewer is to be made securely root tight.

Ample evidence is available that all types of structural liners leave a gap between the liner and the host pipe. If not effectively sealed, the gap provides a possible entry point for roots and infiltration.

Hydrophilic polyurethane, correctly applied using a lateral sleeve grouting packer has proven to be effective, and is likely to continue to be used extensively. However in root infested areas the Australian industry has responded to requests from Australian Water Authorities for more secure sealing systems to be made available.

“Short form” liners are considered to be an effective option as they provide a physical barrier against roots, and can extend up the lateral to past the first joint.

While a few overseas Companies claim to have systems that can provide an effective solution, leading Australian sewer rehabilitation contractor Interflow Pty Limited has developed its own Lateral Connection Repair (“L.C.R.”) short form liner. It can be installed from the sewer main, without excavation.

Interflow's L.C.R. comprises hoop stitched highly elastic felt sewn into a T arrangement and impregnated with silicate resin. The length of the lateral section of the T is measured to be longer than the distance from the main to the first joint in the house service line.

The Interflow L.C.R. is installed from the main using an inflatable packer with a lateral ball arrangement.

Once positioned, the packer is inflated, forcing the L.C.R. tightly against the section of sewer main and the lateral. Excess resin is squeezed into any gap between the liner and host pipe, and any other gaps or cracks, firmly locking the L.C.R. into position. The packer remains inflated while the resin cures.

Silicate resin is used because of its superior strength and bonding properties compared to polyester resin. It can cure at ambient temperature without giving off styrene emissions.



■ Interflow L.C.R. removed from a sewer junction following a trial installation. An effective physical barrier to root infestation has obviously been provided.

Following extensive evaluation from Water Authorities, Interflow is now installing L.C.R.s on several major projects. Over 1,000 have so far been installed.

The rapid acceptance of Interflow's L.C.R. further demonstrates the ability of the Australian Trenchless

Technology industry to develop its own innovations and willingness of Authorities to adopt them after appropriate evaluation.

Further information can be obtained from Interflow Pty Limited, phone: 1800 251 240, email: interflow@interflow.com.au

First 800G Grundoburst in New Zealand



■ Against the hills of Thornton, Wellington

The FIRST 800G (80 Ton Pullback) GRUNDOBURST Pipe bursting machine into New Zealand, sold by J B Sales International, was delivered to Wellington City Council in April, 2003 to fulfil their needs to replace, size for size and upsize both Sewer and Stormwater Mains in the city and suburbs of Wellington.

Within two days of receiving the machine, the work had begun to replace a failed 150mm sewer in Thornton, Wellington, up a steep



■ Lowering in the 800G

graded access lane (steep grades are standard in Wellington) with a new 160mm PE main.

The quick start to using the equipment was due to the simplicity of the machine and the preliminary training provided two weeks earlier at the TT Asia Pacific facilities in Arundel, Gold Coast, Queensland to the Wellington City Council CitiOperations staff of Mr. John Hollingsworth and Mr. Shane Moki. Further on site training was provided by TT Asia Pacific's Mr. D. Vout to complete the training on the safe use and maintenance of the machine and the accessories.

While training and installing the new sewer main, the water authority section of the council dropped by to check out the new addition to the council's equipment fleet and decided that this also had plenty of application in their scope of works as well.

Wellington City Council is very familiar with Trenchless replacement of brittle sewer mains having used their own GrundoCrack 180 PCZ dynamic, compressed air driven air hammer from Tracto Technik for the last ten years.

The Engineers decided that the 800G GrundoBurst with the new Quick-lok

rods and the patented Rollerblade system for splitting and bursting ductile pipe systems was the way to go with the capacity to replace ductile iron, steel, old PVC or PE mains with new PE mains for both Sewer and Water systems. This now provides for greater flexibility for system re-designs and upgrades with PE Pipe up to 450mm in diameter, depending on depth and ground conditions, to be installed without the need to choose the more expensive option of dig and replace the existing systems.

The installation of the 42 metres of new PE Pipe including the installation of the Quick lok rods up the old main and pulling back in the new pipe took only one hour.

The machine has the capacity to install up to 150 metres of new pipe at a time at a rate of 100 metres per hour. For further details on this or the other two GrundoBurst machines, 400G (40 Ton) and the 1000G (100 Ton) available, please contact Peter Decker of TT Asia Pacific on 07 55614999 or email info@tt-asiapacific.com



■ Removing the Quick Loks rods while pulling in the new PE pipe



Western Australian Company oversees works on Reliance

Reliance Industries limited is India's largest private sector enterprise and the major player in the Indian petrochemicals sector which produces 1 % of India's Gross Domestic Product.

The Company recently constructed the largest refinery in the world at Jamnagai. This petrochemical plant even though not in full production last year, still managed to make a \$US4b profit in its first year. It is no wonder they are the darling of the stock exchange and in 2001 replaced TATA as the No 1 company. Reliance's operations capture value addition at every stage from refining of crude oil gas to polyester and polymer products and are vertically integrated to the production of textiles.

The Company has one of the largest marketing networks in the Indian industry. All its brands are market leaders.

The Jamnagai refinery was constructed in 2 years instead of 6 which is a peace time production record, they laid concrete at the rate of 13500m³ per day and they employed 60,000 on one site in Jamnagai 6000 being welders, the Company employs 45,000 people nationally.

The Company is largely owned and operated by the Ambani family whose father built this business empire and its humble beginnings started by him pushing a hay cart around the streets of Bombay.

About India

India has a population of over 1 billion and it is Asia's leading software and IT exporter, yet approximately 40 % of the Indian villages do not have a telephone. 20% have a deficiency in electricity during peak hours, hence the company seized on the necessity to bring the country's communication network in the 21st century.

The Reliance Infocom Project

This state of the art Infocom infrastructure will offer a Broadband Network for high speed voice data for corporate clients, and Terra bit linkage in 115 top Cities throughout India. It



■ **Bombay SPM Kannon Soundararajan, Trenchless Utilities Managing Director James Johnson & Project Coordinator Mal Lobb**

will include a submarine gateway access to the world. This Optic Fibre Network is the largest most modern ever constructed with a cost of US\$6b and will eventually cover the entire country - over 72,000 kms.

Trenchless Utilities role in the Infocom project is the provision of consulting in modern trench and trenchless technology as well as installation techniques.

Trenchless Utilities provided 20 Horizontal Directional Drilling specialists acting in an advisory and training capacity. They oversee a fleet of some 100 Horizontal Directional Drilling rigs spread throughout the continent. Their specialists communicate in the form of daily reports to Trenchless head office in Bombay where our management team analyse and condense the information. Full technical reports are then written and fed back down the line in order to troubleshoot problems in advance wherever possible.

Because of the huge scale of the operation, a vast array of challenging situations were encountered and Trenchless were able to offer innovative solutions. This experience has enabled us to quickly identify recurring problems and in many cases offer on the spot answers.

Lateral thinking has also enabled

Trenchless to develop significant new drilling procedures specially designed for the unique conditions that can be found within developing countries. The highly skilled mainly Australian staff are particularly suitable because of their attitude and work ethics, these hand picked specialists come from reputable backgrounds with many years of experience. This enabled us to offer a wealth of constructive knowledge, due to the varying conditions that the team had already encountered.

Initially Trenchless conducted our own synchronisation schooling with the assistance of companies such as Ditch Witch, Digital Control & Australian Mud Company this enabled us to standardise our own best practices. Trenchless quickly formed alliances with many major International companies who were keen to network us.



■ **Dense services problems**

Trenchless Utilities HDD Infocom Project in India.



■ 12 x 40mm ducts

The service Trenchless provided bridges the gap between the basic HDD machine operation training as conducted by machine manufacturers own field staff, and the overall efficient operation of the whole process of Trench and Trenchless installations A-Z in order to maximise efficient production.

The experience from a contractors perspective gave benefits to the client by short cutting the passage to increased efficiency. Especially due to the fact that operating HDD equipment is considerably more technically demanding than operating basic excavation equipment for example due to the various expertise that needs to be mastered

In this case our customer had the foresight to realise that entering into a new area and purchasing new technology (HDD machinery) required the use of specialists thus shortening the learning curve to reach maximum production in order to complete this large scope of works and bring the project in on budget.

China and other overseas markets

Whilst in Beijing Trenchless Utilities management was able to forge strong ties with many of the larger companies



■ 2720 at creek

involved in that Country's Utilities Sector. Modernisation and the revamping of those massive infrastructures shortly to become a top priority in a Country which is undergoing upheaval and social reform hence Trenchless is planning to commence operations in what is envisaged to be a huge market.

As James Johnson (Trenchless MD) says timing is everything, projects of the size of India don't come along very often, even with China's huge mass, the decentralization and segregation of the Country's

Infrastructure planning system means it is unlikely that Trenchless Utilities will work on any one project of this size in the near future.

However he is confident that the extensive procedure manual Trenchless Utilities has developed for India and many of the blueprint methodologies therein will slot straight into work of this kind in other developing Asian markets and it is in that area that he foresees the company's future.

Article by James Johnson



■ Trenchless team in video conference with client

INTERESTED IN ADVERTISING IN OUR NEXT NEWSLETTER?

If so, please book your ad with Jeff Pace on **(08) 9420 2826**,
email: jeffpace@astt.com.au or contact Michael Boyce on **(08) 9382 8222**,
email: mboyce@mediahighway.com.au for the production of your ad.

Advertising Rates

Quarter page ad
92mm x 135mm
Space ~ \$350
*Production ~ \$50

Half page ad
190mm x 135mm
Space ~ \$600
*Production ~ \$100

Full page ad
190mm x 277mm
Space ~ \$1000
*Production ~ \$200

* PLEASE NOTE 10% GST is applicable on Production of advertisement.

For existing ads use these specifications:

To be supplied as electronic files. Sizes, as above. Advertising material is to be set up in QuarkXpress (version 3.32), Illustrator or Photoshop on a Macintosh platform. All colour images must be CMYK and supplied as high resolution images 300 dpi or greater (CMYK or grayscale). Pictures should not be enlarged. All fonts, illustrations, scans or any file associated with a particular advertisement must be supplied with the main document for that particular advertisement and should be saved as TIF or EPS format.

More International Awards for Australian Lining Technology

Following receipt in 2002 of ISTT's "No Dig Award", Rib Loc Australia Pty Ltd has now received a further international Award for its Australian developed Rotaloc sewer lining system.

At the recent ISTT "No Dig" Conference in Las Vegas, Rib Loc received the North American Society for Trenchless Technology's "Innovative Product Award." This Award recognised Rotaloc as the most innovative new product exhibited at the joint North American and International Societies' Conference.

The Award was presented at the gala dinner by John Hemphill, Executive Director of the NASTT, who praised Rib Loc's innovative approach to pipeline rehabilitation.

Accepting the Award on behalf of Rib Loc, Chief Executive Barry Taylor said he was proud that an Australian Company's achievements had been recognised in the vast and competitive North American market.

He acknowledged the talents of Rib Loc's Australian employees and the role of its alliance partners as the foundation for the Company's success, singling out Australian licensee Interflow Pty Limited who have been



■ Rib Loc Chief Executive Barry Taylor (right) receiving the award from John Hemphill at the International No Dig in Las Vegas

closely involved in the development of Rib Loc's award winning products. Mr Taylor also mentioned the role of

Houston based rePipe Inc in their joint development of new markets for Rib Loc in North America.

Members are reminded that they may contact their local Councillor to discuss ASTT matters. Local Councillors are:

WESTERN AUSTRALIA

Mr Menno Henneveld
Phone: (08) 9420 2826
E-mail: menno@astt.com.au

VICTORIA

Mr John De Grazia
Phone: (03) 9235 2574
E-mail: John.DeGrazia@melbournewater.com.au

SOUTH AUSTRALIA

Mr Fred Flood
Phone: (08) 8204 4924
E-mail: fred.flood@sawater.sa.gov.au

NEW SOUTH WALES

Mr John Monro
Phone: (02) 9636 0141
E-mail: jmonro@ozemail.com.au

QUEENSLAND

Mr Andris Krumins
Phone: (07) 3403 0238
E-mail: mpe@brisbane.qld.gov.au

TASMANIA

Mr Graeme McArthur
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Email: ian.wight@powerwater.com.au

NEW ZEALAND

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Secretary's Corner

Competency Standards for the Trenchless Industry

The Civil Contractors Federation WA (CCFWA) was allocated a project by the ASTT to develop a set of competency standards for the Trenchless Technology practitioners within the Civil Construction Industry.

Over the last 6 months or so, Blue O'Shea, the CCF's consultant has visited numerous ASTT contractors, members and non members of the CCF and has held workshops throughout Australia. The outcome of these workshops has been the development of a set of Competency Standards for the Trenchless industry.

The next step is to now ensure that these newly developed Units of Competency meet industry requirements and also to confirm that the Competency Profile for Trenchless Technology is acceptable. In other words, does it cover sufficient areas, are the "Core & Elective" selections correct, should the "Rehabilitation" group belong to the Water Industry or the Civil Construction Industry, is there anything additional that may have been forgotten or overlooked etc. After this phase is completed and industry has accepted the Competency Standards, these Standards will be submitted to the Civil Construction Stream Advisory Committee (SAC) to commence the process for endorsement by Australian National Training Authority (ANTA).

In the next Newsletter, I shall advise you as to at what stage the Competency Standards are at. Members please be advised that once ANTA endorsement is obtained for the Competency Standards, work will commence through the CCFWA to develop the learning materials to support them. This will without doubt be a significant achievement for the ASTT and the trenchless industry.

EnviroNZ 03 Conference and Exhibition - Auckland

EnviroNZ 03 is a combined Conference and Exhibition incorporating the Australasian Society for Trenchless Technology (ASTT), New Zealand Water and Wastes Association (NZWWA), Australian Water Association (AWA) and Pacific Water Association (PWA) and it will be held at the Aotea Centre, Auckland, New Zealand in over 17 - 19 September 2003 and all ASTT members and interested parties are encouraged to attend.

This is the first time that the ASTT has combined with other related organisations to bring such an event to New Zealand. At no other time during 2003 will a more focused, qualified group of decision-makers and major practitioners have the opportunity to meet face to face. This year's enviroNZ 03, combined with pre-conference and operator training and workshops, is expected to attract in excess of 750 delegates..

At this year's combined event, your company has the ideal opportunity to heighten its profile. Special attention has been placed on the Expo requirements, with over 100 sites being made available to cater for the popularity of this event. The ASTT's No-Dig live demonstrations will also be a major Expo feature taking place on the thursday afternoon. However exhibition sites and demonstrating opportunities at the No-Dig live will be extremely popular, and you are urged to make your booking early to avoid disappointment.

Exhibitors wanting to book space for a booth or for the No Dig live should contact the NZWWA office directly on (04) 802 5262 or email Liz Alexander on liza@nzwwa.org.nz

12th Annual combined Council and General Meeting

The ASTT will also be holding its Twelfth combined Council and Annual General Meeting at this event. Members please be aware that nominations for election to Council will be called in early July 2003.

6th National Conference and Exhibition

I attended an informal meeting in Melbourne earlier this year with John DeGrazia, the Victorian Councillor, and we discussed the possibility of the ASTT holding its next National Conference and Exhibition in Melbourne in 2004. For those of you that remember, the ASTT held its first National Conference and Exhibition in Melbourne in September 1992. Obviously it is now time to consider hosting yet another.

Since our meeting, John has met with some of the local members to seek their thoughts on the proposal and has now confirmed that the 6th National Conference and Exhibition will be held in Melbourne in 2004, also probably around spring time.

John is in the process of establishing an organising committee and is currently seeking expressions of interest from the Victorian membership. Should any Victorian member wish to be considered for working on this rewarding project, then please contact John DeGrazia, as I am sure he would love to hear from you. John can be contacted by telephone (03) 9235 2574 or e-mail: John.DeGrazia@melbournewater.com.au

Outstanding Fees

It is extremely disappointing to have to report that there are still several members that have not paid their fees for this year. Invoices were sent to all members in December with reminder notices also being posted in April. Fees were due to be paid on January 1, 2003.

The main issue with members not paying their fees in time is that the ASTT has to pay the ISTT Affiliation Fee based on membership numbers as at March each year. In other words, if I do not have their cancellation by March, then we pay. This can result in a complete waste of your money being paid for members that no longer wish to remain on and fail to notify me of their intentions.

For those members that are still unfinancial, please let me know URGENTLY exactly what your intentions are. We do not want to have to increase our fee structure because of you.

Acknowledgement of ASTT Corporate Members

A.J. Lucas Contracting Pty Ltd

AB Equipment

Airpipe Pty Ltd

Austeck Pty Ltd

Australian Mud Company Ltd

Australian Pipe Relining Pty Ltd

Autex Industries Ltd

Bothar Boring

Brisbane Water

Browline Downunder Pty Ltd

BTB Australia

C.S.R. Humes Limited

Cable Layers WA Pty Ltd

Christchurch City Council

City West Water Ltd

Coe Drilling Australia Pty Ltd

Collex No-Dig

Connell Wagner Pty Ltd

David Moss Corporation Pty Ltd

Delta Contracting Services

Derby Rubber Products Pty Ltd

Ditchwitch Australia c/- Bateman Equipment

Diversified Services Australia

Energy Australia

General and Civil (Australia) Pty Ltd

GHD Pty Ltd

Hobart City Council

Hunter Water Corporation

Infrastructure Constructions

Interflow Pty Ltd

Iplex Pipelines Australia Pty Ltd

Iplex Pipelines New Zealand

Ipswich Water

J.B. Sales International Pty Ltd

JB Pipeline Services Ltd

Kembla Watertech Pty Ltd

Kingborough Council

Lely West - Vermeer

Logan City Council

Main Roads Western Australia

Manukau Water

Murrays Earthmoving Pty Ltd

Napier City Council

North Shore City Council

Perma-Liner Industries Australia Pty Ltd

Pezzimenti Laserbore Pty Ltd

PIHA Pty Ltd

Pipe Shield Services Pty Ltd

Quinn Civil Pty Ltd

Rib Loc Australia Pty Ltd (SA)

Rob Carr Pty Ltd

Rocket Constructions Pty Ltd

Rowland's Underground Technology Pty Ltd

S.A. Water

Sinclair Knight Merz

South East Water Ltd

Standard Roads (Const) Pty Ltd

Sydney Water

Tenix Alliance Pty Ltd

Thiess Environmental Services Pty Ltd

TT Asia Pacific Pty Ltd

Tunnel Boring Projects Pty Ltd

TunnelTEQ

Tyco Water Pty Ltd

Underground Envirotech Australia

Underground Services Australia

Vermeer Sales & Service Qld Pty Ltd

Vinidex Pty Limited

Water Corporation

Watercare Services Ltd

Webb Excavations Pty Ltd