



**MINUTES OF THE FOURTEENTH COMBINED
ANNUAL GENERAL MEETING AND COUNCIL MEETINGS**

Held on Thursday September 29, 2005 at 5.00pm in NZI meeting room 4,
Aotea Centre, Auckland, New Zealand.

ATTENDING:

Jeff Pace	ASTT Secretary / Treasurer.
Trevor Gosatti	representing Ken Walter, WA Councillor
Will Zillmann	representing John Monro, NSW Councillor

Also attending was: Peter Decker from TT Asia Pacific.

1. Open Meeting.

Jeff Pace acting as the Chairman of ASTT opened the Meeting, welcomed the members and thanked them for attending.

The agenda was reviewed, and those attending were provided with the opportunity to advise of any items to be included in General Business.

2. Apologies.

Apologies have been received from Menno Henneveld, Ken Walter, Graeme McArthur, John Monro, Rob Burnell, Andy Krumins, Grant Binns and John DeGrazia.

3. Minutes of the previous meeting.

The minutes of the previous meeting held in Melbourne dated September 28, 2004 were accepted as a true and correct record.

4. Chairman's Report

The Chairman's Report was delivered by Jeff Pace and outlined the direction that ASTT had taken during 2004/2005, commenting on the objectives, priorities and a number of key initiatives in the 2005 Business Plan that were undertaken during the past 12 months. As the Chairman had commenced his role as Chairman of ISTT at the Rotterdam No-Dig on 20 September, 2005, a brief summary of the direction that the International Society was taking was also provided.

4.1 International Chairman's Report

The major challenges facing the International Society over the next three years centred on declining membership, the manner in which ISTT conducts its business and the age old question of membership value...all of which are closely related to each other.

A major decision at the International Board Meeting was to enable the admission of Regional Affiliated Societies, overcoming the long standing issue of membership of Trenchless Technologists in China.

The Rotterdam event suffered from poor attendance with only 180 delegates, 1380 visitors and 50 exhibitors. The paper presentations were of a high quality, and many of the Exhibitors were pleased with the level of transactions and number of contacts made. The issues encountered were considered to be related to the current market for Trenchless Technology in Europe, and the relative maturity of this market.

One of the highlights of the Rotterdam No-Dig was the award of the International No-Dig Award for the best new Products to the Western Australian firm of Shieldliner, an innovative pipe relining and renovation technology. This followed on from last year's success for ASTT, when we were awarded the International No-Dig Award in the Academic Research and Education category for the e-Education CD for Trenchless Technology. These awards are becoming a high profile event on the International Calender.

The program of International No-Dig Events for the next three years reflects the ISTT intent of conducting these Conferences and Exhibitions in regions which would benefit most from the promotion of the technology. The Event will be in Brisbane in 2006, in Bologna (Italy) in 2007 and in either Moscow or Beijing in 2008.

4.2 Business Direction

The Society has again successfully negotiated a new "Memorandum of Understanding" with NZWWA for this Environz 05. A special thankyou goes out to Grant Binns for ensuring that this event is the success it is and will more than likely continue every 2 years as we have in the past.

Pipeline Publications Australia (PPA) in conjunction with the ASTT has now produced 4 Trenchless Australasia magazines. The magazines are getting bigger and the content is of high quality. Distribution is around some 2000 across Australia, New Zealand and Asia and indications are that this coverage will grow even stronger with the work that Chris Bland (PPA General Manager) is undertaking. The 3 year trial period with PPA is proving to be a success so far.

4.3 Standards and Guidelines

Five proposals were received last year from consultants specialised in the field of Trenchless Technology to develop a "Framework for Guidelines and Standards to Support Trenchless Technology". A consortium of Sewer Assessment Pty Ltd, Trenchless Technologies International and McGill Enterprises was awarded the contract.

Two excellent reports have been produced by the consultants engaged to do this work. The first outlined the current status of the Trenchless Technology industry in the market; reviewed the current standards and guidelines available internationally for the application and utilisation of Trenchless Technology and discussed the manner in which Standards and Guidelines are currently used.

This provided an important pre-cursor for the second report, which was to set out a proposed framework for the development and application of Standards and Guidelines for Australasian conditions in the areas of micro-tunnelling, HDD and Rehabilitation. Work is continuing to determine how the final recommendations presented by the consultants will be implemented. These reports

represent a major area of expenditure of the ASTT's scarce resources, and will provide a clear way forward in addressing these important issues.

4.4 Training and Education

As reported at the last meeting, the Australian Drilling Industry Training Committee (ADITC) and the Australian National Training Authority (ANTA) have endorsed the HDD and Rehabilitation competencies developed by the Civil Contractors Federation (CCF). During 2004, Stage 1 of the development of the Trenchless Technology Support Materials Project has been completed which realised resource development and NTQC noting for the following units of competency

- Fluid assisted directional drilling
- Impact moling, ramming and augering
- Microtunnelling and pipe jacking

The CCF has now developed the learning materials for the three HDD competencies and CCF (WA) will be assessed at the end of September to include Trenchless Technology as part of their Recognised Training Organisation (RTO) status.

CCF is currently working on Stage 2 of the project and will be developing a further 4 resources. These will be:

- Install cure in place linings for existing pipeline systems
- Install close fit linings for existing pipeline systems
- Install slip linings in existing pipeline systems
- Renovate large diameter pipes and chambers

Stage 2 is scheduled to be completed by March 31, 2006

Stage 3 will then commence with another 3 resources being developed, these will be:

- Online replacement
- Localised repair
- Spray lining

Stage 3 is tentatively scheduled to be completed by December 31, 2006

4.5 Promotion

The Society has been active in this area by way of handing out membership information at exhibitions including enviro05 at Brisbane, advertising within Trenchless Australasia magazine and recently has initiated a membership special on the web site. Success has been modest with some 6 new members coming on board.

Overseas promotion for the Brisbane International Conference was escalated last week when we attended the International NO-DIG at Rotterdam and will continue both here in Auckland, in Australia and possibly later next March Trenchless Asia in China. The ASTT is working closely with the Conference Organisers on this vital campaign.

4.7 General

Membership numbers continue to reflect the international trend and have declined. This is of continuing concern but we are optimistic that we shall generate some new members through this Environs05 Event and the extensive promotion of the Brisbane No-Dig Conference and Exhibition. *Trenchless Australasia* will also help in this regard.

A program of National and International events for ASTT through to 2006 will see the continued promotion of Trenchless Technology throughout Australasia.

5. Secretary/Treasurer's Report

5.1 Financial Report

Jeff Pace reported on the financial status of the Society.

He referred to the 2004 Auditor's Report that was tabled, and highlighted the following points to note. Last year the Society produced a modest positive outcome of \$7699 compared to \$15917 in 2003. Although not an overwhelming profit, it is still a profit.

The big ticket items for 2004 related to travel and exhibition costs mainly associated with promotion of the Brisbane International NO-DIG and our Affiliation fee with the ISTT.

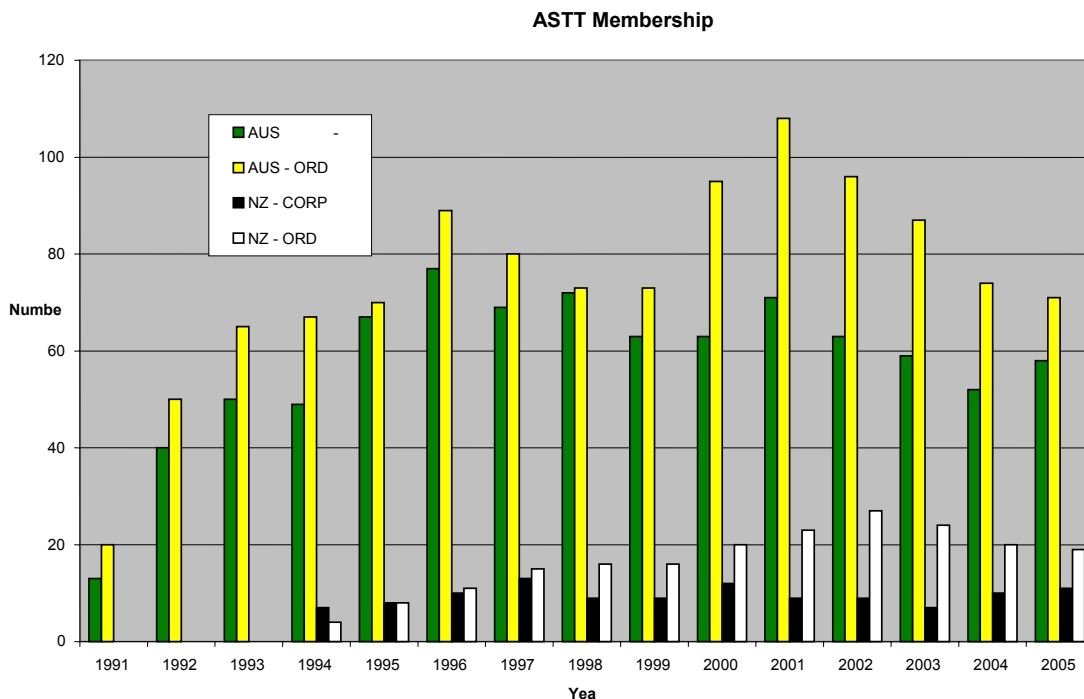
Fortunately the two anticipated large payments were not realised in 2004 that were for the seed funding for the Brisbane International NO-DIG 2006 and for the consultancy work that has been done on the development of Guidelines and Standards. Members should be aware that the NO-DIG 2006 seed funds \$40,000 was paid in 2005.

Also on the positive side for 2005 was the repayment of the Melbourne Conference seed funds and the profit of around \$18000 which has put the Society back into a healthier position, at least for 2005.

The Society raised its fees this year as agreed at the last meeting by some 8% for Australian Members and 6% for New Zealand Members.

5.2 Membership

Once again there has been a reduction in members and this is of concern as this is our primary source of income excluding Conferences.



In summary, we have 60 Corporate and 70 Individual in Australia and 11 Corporate and 20 Individual in New Zealand as at September 6, 2005.

In July I introduced a Membership Special on line which resulted in 4 new Corporate and 2 new Individual Member. This special was clearly visible when opening the ASTT website and this is a strategy that I believe will be continued in the future.

As in the past, it is worth noting that the society spends an enormous amount of time and effort in chasing up members that un-financial. This year was no different from the last. Members probably do not realise that payment of the Affiliation Fee to ISTT is directly related to the number of members (financial or otherwise) that the Society has on its books as at March 31 of each year. Therefore the Society carries the risk of paying for members that may end up cancelling their membership after March 31.

Members are also reminded that if they shift addresses, to forward their new address and contact details to me. This info will then immediately be passed onto the ISTT.

5.3 Internet

ASTT's homepage is constantly being upgraded. In year 2003 we averaged 213 hits per month. In 2004 we averaged 237 and currently we are averaging around 311 from January to August 31 this year. This is pleasing because it means that the site is being accessed by people who have an interest in trenchless technology. It is also good news for marketing membership opportunities. A trial Membership Special also proved to be fairly successful.

5.4 Directory of Services

All members are requested to visit the Member Services area of the ASTT website and confirm that the information stated about you the member, is still accurate. Therefore it is absolutely essential that should you change addresses, phone numbers, e-mail and so on that you immediately let me know so that I can notify the ISTT, PPA and update the members database for future correspondence etc.

5.5 Trenchless Australasia

In September 2004, we launched the Trenchless Australasia magazine so as to coincide with the Melbourne Conference. To date PPA have produced 4 magazines, all of which have been very well received by industry. This arrangement is a success story for the ASTT as now we can send out our message and promote ourselves to around 2000 companies across the South East Asian Region.

5.6 Ozwater – Brisbane

The ASTT and PPA shared a “Complimentary Booth” at last years AWA Ozwater Conference and Exhibition as we did here in Auckland in conjunction with the NZWWA.

This combined presence is proving successful with Chris Bland chasing up new contacts and articles for our magazine and me out there promoting the ASTT and future Conferences. The magazine is proving to be a very popular freebee to hand out at venues like these.

The ASTT may undertake this exercise again with AWA's Enviro 06 that will be held next year at the Melbourne Exhibition and Convention Centre over 9 – 11 May, 2006.

6. Councillor's Reports

6.1 New South Wales - By John Monro

It is pleasing to report that once again NSW members of the ASTT have played a prominent role in advancing Trenchless Technology in this region.

Among our members' achievements this year has been:

- The ASTT Educational CD developed by Dr Jon O'Brien from the University of NSW received Tunnelling and Trenchless Technology magazine's “Trenchless Project of the Year” award;

- TTI Consulting received an Australian Consulting Engineers Association Award for a Trenchless Technology project in India;
- Interflow Pty Limited is a NSW finalist in the Institution of Engineers Australia's "Engineering Excellence Awards;"
- Dr O'Brien had his Paper on Trenchless Technology in Engineering Education accepted for an International Engineering Education Conference in Sydney. Sadly he was unable to present the Paper due to the situation at the University.

An important activity of the Branch is the holding of quarterly meetings, which have been attended by 15 – 20 members. Sydney Water kindly allows us use of their Yagoona premises for these meetings. As well as valuable networking opportunities, these events enable members to be kept up to date with Society initiatives and to discuss matters of relevance.

Invitations are emailed to all NSW members, and we aim to keep our members in remote locations involved by emailing Meeting Reports.

Typically these meetings include a presentation by a prominent industry specialist. Presentations over the past year have been

- November 2004: Dr Peter Zeman of Sydney Water reported on lessons learned from the Saif-T, a polyethylene tee designed to be used in place of manholes on new sewer installations. It failed in use despite extensive finite element analysis during evaluation
- May 2005: Peter Brown of Infrastructure Construction gave a presentation on latest developments in directional drilling and issues relevant to the industry
- August 2005: Trevor Groeneveld of CLM Trenchless reported on Swagelining, illustrated with a major project of lining a water main for Hobart City Council.

Over the next year, as well as continuing current activities, our members are looking forward to contributing to the initiative involving the CCF in the development of formal training packages for Trenchless Technology.

6.2 South Australia - By Rob Burnell

Not received.

6.3 Victoria – By John DeGrazia

Overview

The main activity that the Victorian Council has been occupied with during the year has been the organization of the 6th ASTT National Conference, in Melbourne.

Membership

Membership for the last year has remained reasonably constant, although there was an increase of 2 taking the Victorian membership up to 31 members.

6th ASTT National Conference

The main area of focus over last year has been the preparation and organisation for the National Conference held in Melbourne from 27 –29 September 2004.

The conference featured a range of speakers, including some high-profile overseas keynote speakers, as well as a very successful trade exhibition and a range of social events. The conference returned a modest profit of around \$14,000 back to the ASTT treasury.

I would like to thank the Organising Committee for their time and efforts in making the conference successful. The Organising Committee comprised the following people:

John De Grazia (Victorian Councillor) – Melbourne Water Corporation
Stewart Burn – CSIRO
Chris Geehman – South East Water
Tony Norrish – GHD
David Harrington – Sideliner Pty Ltd
David Collins – Sideliner Pty Ltd
David Dodemaide – Interflow
Ahmet Hashim – City West Water
Chris Frangos – Kembla Watertech
Peter Archibald – Vermeer
Mike Breen – Ditch Witch Australia

The Professional Conference Organiser (PCO) appointed for the conference was International Conferences and Events (ICE Aust.). The PCO was the same company that arranged the 5th National Conference in Sydney. The experience gained from exposure to the previous ASTT conference helped enormously.

The theme for the conference was “Trenchless - A Sustainable Hole Solution”, which was chosen to demonstrate the significant environmental advantages of Trenchless Technology, particularly the fact that the ‘hole in the ground’ can be utilised more than once to rehabilitate or renew pipeline infrastructure.

In all there were 438 attendees at the conference and exhibition, which was held at the Melbourne Exhibition and Convention Centre.

Keynote speakers for the conference were Dr John W Heavens, who serves as the Principal for Jason Consultants Group & has been the Technical Secretary for the ISTT since 2001, and Joseph W. Barsoom, the Director of Engineering, Wastewater Management Division (WMD) for the City and County of Denver, USA, and was voted Trenchless Technology Person of the Year in 2000.

Dr John Heavens address ‘Lessons from Our Past – A Resource for Our Future’ discussed the history of the Trenchless Technology industry from its beginnings in the early 1980s, and focused on ways in which lessons learned on past Trenchless Technology projects around the world can be used to solve problems on current projects.

John focused on the benefits that can be gained from papers delivered at the various Trenchless Technology conferences held around the world, and reminded attendees that the papers presented at these conferences are a rich source of information on every aspect of Trenchless Technology, whilst recording the lessons learned in solving the problems of the day.

John reviewed the methods available to access these valuable resources, with a focus on the opportunities offered by the Internet. Sources of information on key issues such as social cost and environmental impact were also discussed, as was the possibility of establishing a central searchable database to facilitate access to all relevant information sources for those working in the Trenchless Technology industry.

In Joseph Barsoom’s address “Trenchless Rehabilitation and New Construction - A Municipal Engineer’s Perspective,” Joe focused on the Trenchless Technology methods used in the City of Denver, and the advantages and limitations of each method, the advantages of using Trenchless

Technology in sewer lines rehabilitation, and the economical, social, political, and the direct and indirect cost benefits.

Case studies showing the benefits of using Trenchless Technology in sewer line rehabilitation and storm drainage projects were also discussed. Looking to the future, Joe highlighted the need for further research and prospective of education and promotion of Trenchless Technology in the USA.

The conference also had a strong social program, kicked off by a golf tournament on the first day of the conference. Held at the Sandringham Golf Course, the delegates who attended had an enjoyable day and were provided with plenty of networking opportunities.

The conference welcome function, a cocktail party, was held at the Melbourne Aquarium. ASTT President Menno Henneveld welcomed attendees to the conference and Chris Bland the editor of Trenchless Australasia, launched the new official magazine of the ASTT.

The official conference dinner was held at Atlantic South Wharf along the banks of the Yarra.

Like all conferences, there was great assistance provided by the sponsors, and a thank you goes to the following:

Gold Sponsor	Kembla Watertech
Gold Sponsor	Interflow/Rib Loc
Silver Sponsor	GWC Group Pty Ltd
Bronze Sponsor	Vermeer Sales & Service P/L
Luncheon Sponsor - Tuesday	South East Water Limited
Luncheon Sponsor - Wednesday	Thiess Services P/L
Morning Tea Sponsor - Tuesday	CSIRO
Morning Tea Sponsor - Wednesday	Underground Asset Services
Satchel	Dial before you Dig
Pads & Pens	Transpacific Industrial Solutions

Anyone wishing to obtain a copy of the conference proceedings should contact the ASTT Secretary, Jeff Pace.

Water Industry

Within the water industry the level of activity was similar to previous years with pipe –cracking being the most favoured technique being used. Pipe – cracking represents around 50% of the total trenchless construction work undertaken. Directional drilling is the next most favoured technique and it represents around 30%. Sliplining, cured in –place liners, spirally wound liners, and GRP lining make up the remainder.

As would be expected, the pipe size range for the trenchless work deals predominantly with the smaller diameter sizes (ie 100mm – 450mm) and covers both the water supply, sewerage and stormwater drainage systems. The percentage of work dealing with larger diameter sizes up to 1800mm, is generally small. The main technique for new construction is microtunnelling and pipejacking.

South East Water has commenced the construction of the Hallam Valley Main Sewer Extension. The project will ultimately involve a 9 km extension at depths of between 5 and 12 metres and will be constructed predominantly by trenchless techniques. The first stage has commenced and at the time of writing, 5500 metres of 1500mm RC pipe has been installed by pipe jacking. This project is the subject of a paper in the conference proceedings.

6.4 Tasmania - By Graeme McArthur

As reported in 2002 “after ten plus years of intermittent assessment and some use, trenchless technology has finally come of age in Tasmania. During this time we have seen the use of sliplining with polypipe and pvc, pipe cracking, robotic repairs, fibreglass lining, laserboring, moling, pipejacking and directional drilling.”

Well, it is pleasing to report the rate of usage of trenchless has increased dramatically due to the Tasmanian Gas Pipeline (TGP) project reticulation installation as well as increased awareness of the benefits in local government infrastructure construction and maintenance. In addition the State is now blessed with its own producer and installer of Multiliner fiberglass reinforced liners for complete rehabilitation systems, Underground Asset Services. (UAS) also provide a patch lining service using short length frp inserts.

Local authority designers and constructors are taking account of the various methods for comparison at the preliminary design stage with increasing trend towards the trenchless solution as the preferred option.

Essentially a trenched operation, the necessity for major river crossings has seen contractors using horizontal directional drilling (HDD) extensively and now with urban infrastructure connecting households and industry to the system, HDD is the preferred method. Even with poor records of other utility services and streets cluttered with other authorities’ infrastructure the benefits of a trenchless solution are winning hands down. Environmentally friendly HDD has been used at 12 major river crossings, reportedly including Australia’s record, at the time, of the longest under river drill length of 2,063m under the Tamar River in northern Tasmania.

The TGP is part of a \$400m project by Duke Energy International, now Powerco, begun in December 2001 to supply natural gas to Tasmanians.

Powerco Energy Services Report

Details of HDD construction on the Tasmanian Gas project as follows

Major crossings - Coe Drilling QLD

Derwent River, Old Beach to Austins Ferry Hobart (urban)

Length = 950 metres; 8" 5LX 42 coated linepipe

South Esk River, Hadspen (semi rural)

Length = 200 metres; 6" 5LX 42 coated linepipe

Meander Valley Highway crossing, Prospect (urban)

Length = 134 metres; 6" 5LX 42 coated linepipe

Mersey River crossing, Devonport (urban)

Length = 440 metres; 6" 5LX 42 coated linepipe

Separate telco HDD bores were also carried out at each of the above crossings Up to 110mm OD diameter

HDD techniques were also used for numerous rail and highway crossings up to 250mm diameter in each of the following urban areas: Hobart, Launceston, Devonport, Burnie and Wynyard

HDD techniques have been used to bore gas mains up to 160mm diameter on the Stage 1 backbone PE networks in Launceston, Burnie and Wynyard.

HDD techniques have been used EXTENSIVELY to bore gas mains up to 160mm diameter on the Stage 2 PE networks in Hobart, Launceston and Devonport to date.

Threshold is 70% of the total project approximating 600Km in length. This project is over 25% complete and will not be completed until June 2007.

The gas contractor Codmah reports construction by HDD of over 25kms of pipeline in 32, 63, 90, 110, 125, 160, 200, 250, 300, 315 diameters in steel and polyethylene for gas, sewers, stormwater, telcom and electricity reticulation in a variety of conditions across the state.

Other Councils reported extensive use of TT as follows.

Central Coast 100m of 100dia gravity sewer, and 340m of 100dia rising main by HDD

Clarence 157m of 300 dia, 103m of 375 dia, 110m of 450dia, 33m of 600 dia, Multiliner frp. in rcp.

Hobart, 43m of 300dia, using Multiliner, 3450m of 450dia sewer rising main by Swage liner, an imported method, undertaken by Collex

The swage lining being a unique project to Australia utilized the compression of the material to enable installation in the host pipe with the subsequent return to the host pipe diameter upon curing insitu. It is hoped that a paper on this project may be delivered at the Brisbane conference next year.

Kingborough 478m of 150 poly and 40m of 400poly by pipe cracking, and 271m of 150dia poly by drilling.

Launceston 500 of 150, and 450m of 375, 70m of 300 by Multiliner, and some short length works by HDD and boring.

Latrobe 20 by 10m lengths of 50mmdia water connections by directional drilling, 200m of 300dia sewer rising main using Multiliner, and previously have used Ribloc for lining 100m of 150 dia sewer gravity main under two local creeks.

Meander Valley have installed numerous under road water services in urban situations.

So it clearly indicates a wider use of TT by a wider group of Councils.

Membership

Membership is currently static at about 5 in Tasmania.

Conclusion

The recent Engineers Australia Infrastructure report has highlighted the need for increased funding on assets in Tasmania, as well as elsewhere. With the noticeable upsurge in TT applications in the last couple of years it can be expected that trenchless has earned its legitimate place as an appropriate option and is well tested for applications in the future in line with the potential outcome when the EA Report is dissected and addressed.

In closing I wish the Society and members a successful New Zealand conference.

6.5 Queensland - By Andy Krumins

The major focus of activity since our last meeting has been on the "No Dig Down Under 2006" ISTT/ASTT Conference to be held in Brisbane next year.

The initial committee with our Secretariat has progressed the documentation for industry and presenters of papers to where we can advertise here, in New Zealand, in Rotterdam and elsewhere.

Exposure has already been achieved through the ISTT/GSTT Conference in Hamburg and at the GSTT Booth at IFAT 2005 that was attended by more than 100,000 visitors. See attached material.

The committee promises an event to be remembered, and the degree of success can be assured by boosting participation from Australia and the world.

We are focused on this through trade missions to China etc. and your contribution is critical. I do not want to see States only represented by the Councillor as has happened – now is the time to prove your worth and work on achieving numbers in Australia not seen in recent times. Contact me personally before I contact you and see what we can achieve – with Geraldine, the Frilly Lizard, not a bearded dragon.

A major achievement announced at the last AGM is about to be implemented – that is the co-tendering of some sewer relining in South East Queensland, which is represented by 16 Councils that are water authorities.

This will be a great breakthrough for the industry where one set of documents and specifications will replace many and it is envisaged that continuity of work over the financial year will be a welcome outcome.

Refer also to Item 14 for the Brisbane International NO-DIG Conference Report.

6.6 Western Australia – Ken Walter

Activity within Western Australia has been continued at a steady pace, with future activity increasing with two major tunnelling projects.

New MetroRail City Project value: \$325 million

Contractor: Leighton Kumagai Joint Venture

Client: Public Transport Authority

Project Elements:

- The TBM will bore under William Street, forming 744 metres of twin bored underground rail tunnel.
- The cutter head at the front of the machine rotates at one revolution per minute.
- The diameter of the TBM shield is 6.9 metres.
- Tunnelling operation will continue 24 hours per day.
- The TBM will cut through soft soil conditions that are a mixture of sand and clay.
- Approximately 100,000 cubic metres of earth will be removed during tunnelling.
- The TBM was manufactured in Kobe, Japan, by Mitsubishi Heavy Industries. It is Mitsubishi's 1,649th machine and has been custom made for this project.



The Water Corporation has called for Registration of Interest in the East Section of the Perth Main Sewer to be replaced.

Underground power continues to be rolled out in the western suburbs.

CCTV use is increasing as Service Authorities inspect their asset conditions and for preparation.

Following failure of a sewer main and major water main in South Perth, the Water Corporation is accelerating a relining program aimed mainly at the CIP market.

It was extremely pleasing to note that ShieldLiner Limited, a Perth based member of the ASTT, won the award for the *New Machine, Tool, Material, System or Technique classification of the International Society of Trenchless Technologies 2005 No Dig Awards* in Rotterdam in mid September, for its first commercial rig utilising its unique patent pending trenchless technology for the repair and rehabilitation of underground pipes.

The ShieldLiner® System offers a new, cost effective alternative in tackling one of the most pressing issues facing infrastructure owners – repairing and rehabilitating ageing pipe infrastructure, not only in the traditional trenchless technology areas of water, sewerage and wastewater, but potentially also in the oil, gas, mining and industrial processing industries because of the wide range of material combinations that can be applied to the inside of pipes using the system.

In getting the system developed to its current stage, the small, creative and dedicated technical team at ShieldLiner have met an enormous range of challenges and are to be congratulated on winning such a prestigious award.

6.7 New Zealand - By Grant Binns

State of the Market

Like always, I believe we are still trying to gain general acceptance and credibility as a viable alternative to conventional open excavation and while we are making headway there is still a long way to go in this area.

Our company recently missed the opportunity for a river crossing because the client did not want to any risk of failure for their river crossing because they were aware that an attempt to cross the river further upstream had failed 5 years earlier. While we tried to convince the client that the technology and the methodology had changed considerably since the failed attempt, he was still not prepared to even attempt a drilling solution.

While this is disappointing it is just the way it is. We also still have the opposite extreme as well where trenchless solutions have been specified but they are either the wrong technology or using incorrect tolerances for the technology. This situation is just as frustrating as the one above.

However in making these comments and from the limited feedback I have obtained from locals members, the trenchless technology market is buoyant and continues to develop steadily. This is probably linked to a very buoyant civil construction market which is generally facing more work than it can handle due to a lack of skilled and experienced staff.

This staffing issue is one that the trenchless industry needs to confront as well especially from the site foreman level down. We need to find, train and retain good intelligent keen people if we are to continue to grow acceptance of the technology.

Projects Underway

It is pleasing to see micro tunnelling projects underway in Auckland and Wellington and plans for more projects of this nature. It is also to be noted that some of the equipment being used on these projects has been locally manufactured to standards that match equipment being supplied anywhere in the world.

There have also been good number of challenging directional drilling projects out in the market especially in the north of the north island and there has been a steady flow of drill work around the country without returning to the crazy communication installation days.

I have also had feedback on the number of pipe lining operations that are underway in different parts of the country and this aspect of TT appears to be gaining some momentum, as is an increased level of interest in pipe bursting which has seen a number of reasonable sized projects in the market.

Seminars Run

In conjunction with the NZ Water & Wastes Association we ran three introduction seminars to trenchless technology. These seminars introduced the participants to the wide range of trenchless options now available in the market and we spent time discussing how these projects need to be planned, and monitored and we looked at systems and approaches that could be used to get the technology on board in the most effective and appropriate manor.

The seminars were held in Christchurch, Wellington and Auckland and proved to be very successful with around 100 attendees. I must acknowledge the assistance of my co presenters, Phillip McFarlane from Projectmax in Auckland and John Monro from Interflow in Sydney.

I also need to acknowledge the assistance of NZWWA for the promotion of these seminars and for arranging the venues etc.

Conference

We now have the combined NZWWA / ASTT conference EnviroNZ 05 which has to be one of the best vehicles available for the direct promotion of Trenchless Technology to a specific group of people that need to know about what we have to offer.

To this end we have Samuel Ariaratnam from the Arizona State University presenting our Iplex Pipelines keynote address. I have asked Sam to look at where the TT industry has come from, where the TT industry sits now and what it currently has to offer, and where is the TT industry going in the future and what might it be able to offer.

We also have a range of technical papers on offer and a workshop session for Friday which will go through all of the stages involved in preparing and putting in place a trenchless technology project including site visits.

Summary

I believe continued promotion of trenchless technology, its applications, its restrictions and its benefits is the key to our success. We have to make the most of the opportunities on offer and at present a continuing and growing workload looks assured. Those in the game have to continue to maintain and improve on their professionalism and continue to develop their techniques and knowledge and also support those who are helping to develop the industry they are working in i.e. the ASTT and the NZWWA.

7. Election of Council

A call for nominations for election to council was sent to all members on July 11, 2005.

As there were no nominations received by close of business on August 12, 2005, Council will remain as it currently is.

Council for 2004/2005 is as follows:

Western Australia Ken Walter	Tasmania Graeme McArthur	Queensland Andy Krumins	New Zealand Grant Binns
New South Wales John Monro	Victoria John DeGrazia	South Australia Rob Burnell	Northern Territory Vacant

8. Election of Federal President.

One nomination has been received and that was from Menno Henneveld.

As there were no other nominations put forward, Menno Henneveld was re-elected unopposed by Council.

8.1 ASTT Representative to ISTT Board.

It was agreed at the Rotterdam NO-DIG Board meeting that Jeff Pace will be the nominated ASTT Representative to the ISTT Board for the next 12 months. This interim arrangement will not have any significant implications as the next International meeting with the ISTT will be in Brisbane next year.

9. Appointment of Secretary Treasurer.

As there were no expressions of interest received from Councillors, Jeff Pace will continue to be the Society's Secretary Treasurer.

10. Election of Vice President.

In accordance with the Constitution, a Vice President may be elected from Council if considered necessary. There were no nominations received.

11. Appointment of Auditor.

Chartered Accountant Gary Ogden has undertaken the Society's Audits since 1992.

As Council had no objection to his continuing with the auditing, he has once again been appointed as the Society Auditor.

12. Business Plan – Refer to Chairman's Report – Item 4

13. 2005 Activity Summary Report for Brisbane 2006 NO-DIG Update

ASTT's main focus now is the 24th International No-Dig 2000 Conference and Exhibition that will be held in Brisbane over 29 October – 2 November, 2006

Listed under are the achievements thus far:

1. PCO appointed (Event Planners Australia) and they have an active involvement with the Organising Committee.
2. Organising Committee meeting on a regular basis.
3. Brisbane Convention and Exhibition Centre booked and in the process of finalising the contract
4. Logo launched in October 2004 in conjunction with promotional material distributed at Hamburg.
5. First Preliminary Announcement distributed at:

First Preliminary Announcement

<i>Date</i>	<i>Organisation/Event</i>	<i>Quantity</i>
Nov-04	ISTT04, Hamburg, Germany	300
Feb-05	GSTT, distribution at IFAT and Europe events	500
Mar-05	Brisbane Water	1050
Apr-05	IFAT (Andris Krumins)	300
May-05	AWA OzWater, ASTT booth	700
May-05	AWA OzWater, Brisbane Water booth	1000
Jun-05	EES 2005 satchel insert	250

6. Revised Preliminary Announcement distributed at Lausanne with German added.
7. Westrade appointed as International Exhibition Sales Agent by ASTT.
8. Conference promotion continued in Australia, Germany and New Zealand.
9. Provisional Programme prepared.
10. Conference Home Page established with the address being: www.nodig06.im.com.au
11. More than 300 hits on the website as at 1 September 2005
12. Sponsorship package prepared to be available after No Dig 2005.
13. Conference Theme developed of " Sustainable Infrastructure "
14. 5000 Preliminary Programmes to be distributed worldwide through by ISTT and a further 500 (printed in Japanese) distributed to the JSTT members.

Call for Abstracts

<i>Organisation/Event</i>	<i>Quantity</i>
No Dig 05 satchel insert	500
Trenchless Australasia magazine insert	1650
No Dig 05 booth	100
NZWWA satchel insert	100

15. Exhibition floor plan drafted and online for booking format currently being confirmed..
 16. Call for Papers also now available on line
 17. All Affiliated Societies invited to purchase at a reduced rate "Space Only" for the exhibition, so far GSTT and JSTT have indicated they require space.
 18. Exhibition floor sales to commence after No Dig 2005.
 19. First Preliminary Announcement "Expressions of Interest" written responses that have been already received are as follows:
 - Expressions of Interest = 61 received
 - Potential Exhibitors = 131 received
 - Potential Sponsors = 83 received
- The total database is 542 as at September 1, 2005. This in itself is pleasing because it demonstrates the success of the ASTT Marketing campaign.
20. Sponsorship proposal has been drafted and will be release after No Dig 2005.
 21. Brisbane 2006 Video prepared to promote conference.
 22. Video showed at Rotterdam and also at Hamburg and at several other Exhibitions across Australia and New Zealand.
 23. Two key note speakers will be sought from the Australia/Asia Region.
 24. The Premier of Queensland will be invited to open the Conference.
 25. A schedule/program of articles, news releases for the 12 months leading up to the Conference has been determined and the magazines, journals, newspapers identified.
 26. Articles have been prepared and will appear in regular issues of Trenchless Australasia and the Trenchless Technology magazines.
 27. The Conference Budget is based on between 600 and 900 delegates and 100 and 150 exhibitors. Delegate fees have been set at early bird member rate of AUD\$1,250.00 and booth sales at AUD\$434square metre.
 28. Venue for NO-DIG live will be finalized latter this year
 29. All ASTT Councillors are receiving a copy of the Brisbane 2006 minutes of meetings so that they are kept up to date.

14. General Business

There were no issues raised.

15. Next Meeting

The next meeting will be held in conjunction with the 24th International NO-DIG 2006 that will be held in Brisbane over 29 October to 2 November 2006.

Minutes compiled by:
Jeff Pace
Federal Secretary
October 2, 2005