



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

Held on Monday March 8, 2010 at 5:00pm
at the Mercure Brisbane Hotel, Brisbane, Queensland

ATTENDING:

Trevor Gosatti	-	Chairman of ASTT and West Australian Council Representative
Chris Frangos	-	Victorian Council Representative
Steve Apeldoorn	-	New Zealand Council Representative
Jeff Pace	-	Secretary / Treasurer
Ben Sheehan	-	Vermeer
Trevor Groeneveld	-	ITS Trenchless
Phill Cook	-	ITS Trenchless

Also attending was: Chris Bland.

1. Open Meeting.

Trevor Gosatti, Chairman of the ASTT opened the meeting and welcomed the Councillors and 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.

An apology was received from Kane Scott, SA Council Representative, John Monro, New South Wales Council Representative, Graeme McArthur, Tasmanian Council Representative and Andy Krumins the Queensland Council Representative

3. Minutes of the previous meeting.

The minutes of the previous meeting held in Melbourne dated April 24, 2009 were accepted as a true and correct record.

Moved: Steve Apeldoorn and seconded by Trevor Gosatti.

4. Chairman's Report - By Trevor Gosatti

International Report

Fairly quiet year on the international front. I refer to Jeff as ISTT representative to provide update in his report.

We acknowledge the excellent work that Chris Bland and his team had put together in what is recognised as an excellent international publication.

No-Dig Conferences and Events

Singapore No-Dig 2010: Take place 8-10 November, 2010 at the Singapore Expo. Will be conducted by Westrade and has the essential support of the Singapore Public Utilities Board.

Berlin No-Dig 2011: Take place on 20-24 June 2011 in conjunction with WASSER-BERLIN. The GSTT to pay ISTT a fixed fee for helping stage the event.

A regional event would be conducted in Pretoria, South Africa possibly in the fourth quarter of 2011. ISTT would take the lead in the event with support from the SA Society of Trenchless Technology.

Sao-Paulo No-Dig 2012: The Brazil Society of Trenchless Technology will host the 2012 No-Dig in Sao-Paulo subject to reaching agreement on details of the event.

We have advised the ISTT that the ASTT will be making a bid for the 2013 No Dig International to be held in Sydney. This will be decided in Singapore at the 2010 Conference. Further discussion later on this.

International Update - by Jeff Pace

The ISTT chairmanship will change this November at the Singapore No-Dig where Dr Dec Downey will stand down and the new chairman will be Dr Sam Ariaratnam?

The ISTT will also hold elections for four seats on the Executive Sub-Committee (ESC) and for Vice Chairman at the November 2010 meeting of the Board of Directors. Derek Choi has announced his intent to stand for Vice Chairman.

No-Dig Conferences and Events

Singapore No-Dig 2010 takes place over 8-10 November, 2010 at the Suntec Exhibition Centre. The ASTT has sent letters to all members who may be attending to contact the Secretary for a possible Delegate Discount of up to US\$100. Responses to date have not been encouraging which is surprising as we are only chasing a minimum of 15 members. This offer of a reduced rate expires on 31 May 2010.

Berlin No-Dig 2011: Take place on 20-24 June 2011 in conjunction with WASSER-BERLIN.

Sao-Paulo No-Dig 2012: The ABRATT, Argentine Brazil Association for Trenchless Technology will host the 2012 No-Dig in Sao-Paulo.

The ASTT will be putting forward a formal bid at Singapore to host the 2013 International No-Dig in Sydney. The actual dates are still being determined

Australasian Report - by Trevor Gosatti

Major items for the year.

- A very successful Trenchless Australasia was held in Melbourne during September 2009. Recognition of this fantastic showpiece of the trenchless technology industry must go to the following:
 - Chris Bland and his team at Great Southern Press who promoted and organised the event,
 - Chris Frangos and the conference organisation team for the technical stream
 - The sponsors, presenters and exhibitors that supported the event.
- The ASTT had previously announced that Joel Chong from Calibre Projects was completing the Guidelines for Pipe Bursting, Horizontal Directional drilling and Micro-tunnelling and Pipe Jacking. These documents were presented at the ASTT National Conference and Exhibition in Melbourne in September, 2009 in workshop for comment and have now been lodged on our website for use.
- The announcement of a No Dig “Live” event to be held in Coffs Harbour later this year is a fantastic opportunity for the industry to showcase its capabilities to stakeholders and the public.

Training and Education

- The NUCA-TAG initiative in collaboration with the NASTT's continues to be available.
- Continuous improvement of the trenchless technology elements of the Civil Construction and Drilling Training Packages continues to happen.
- CCTV will be brought into the Training Packages as an import from the Water Workers Industry. Promotion of the formal training of these units may be done at No Dig Live and other wise.
- Vacuum extraction to have competencies drawn up and included in the Training Packages.

International No-Dig 2013

- ASTT event to be in Sydney at that time regardless
- Bid to be developed to be put at Singapore
- A conference team will need to be formed to co-ordinate
- Agreement with Great Southern Press on potential conference arrangements

West Australian Report - by Trevor Gosatti

As reflected in last year's report, activity in the Western Australian civil construction industry had slowed down significantly and this was reflected also for the trenchless technology sector.

Contractors, MacCormick Civil and Tunnelling, DM Civil and Rob Carr continue to complete several projects in the state and in some cases also around Australia and overseas.

The Water Corporation of W.A reduced its budgeted programs which affected works that allow for trenchless technology. The Infill Sewerage program was reduced but some micro-tunnelling lines were still being completed as part of the works. The Corporation also continued a reduced sewer rehabilitation program for a panel of relining contractors.

The City of Kalgoorlie-Boulder is another asset owner that is completing programs to rehabilitate its sewer pipe systems and is promoting the use of trenchless methods to do so.

The use of CIPP to rehabilitate pipes continued to occur amongst several of Perth's councils who are instigating small programs for rehabilitating drainage pipes, but many of these were reduced due to budget cut backs.

The use of pipebursting as a method of pipe renewal is increasing with RePipe using its Tric tool system to complete several projects in WA and some works in other states.

The use of directional drilling for the installation of underground power and communications continues to be common place now and many contracts are being completed although this still remains a very competitive market with many smaller contractors. Several companies are investing in new machines capable of drilling larger diameters and longer range bores in an effort to differentiate themselves in the market.

It is pleasing that several progressive companies in WA have taken the downturn as an opportunity to train and qualify staff in the trenchless sector. Several traineeships in both the Civil Construction and the Drilling sector AQF Training Packages have been signed up and auger well for the future.

Whilst 2009 has been a difficult period for the civil construction sector generally, including trenchless, the prospects look brighter with the potential oil and gas sector (with several major projects announced) and the resources sectors both flagging future works that should include trenchless technology, in the next few years. Directional drilling in particular should look forward to potential works from these sectors

5. Secretary/Treasurer's Report - By Jeff Pace

5.1 Financial Report

Jeff Pace referred to the Audit Report that was tabled outlining the financial status of the Society.

He informed the meeting that 2009 was a year that the Society outlaid a significant amount of the funds that had been accumulated over the years on the promotion of trenchless technology activities. The most significant of these was the funding of the development of Guidelines, Standards and Specifications for HDD, Pipe Bursting, Micro Tunnelling and Pipe Jacking.

In 2009 the Society accounts reflect a further loss of income of \$39,667 when compared to the loss of \$21,471 in 2008. These losses were planned for as the funds were spent on the promotion of TT through the Jason Seminars and the development of the Trenchless Guidelines.

2010 will see a return to the positive due to the profit boost from the Melbourne Conference and Exhibition of \$41,038.47, membership subscriptions of around \$65,000 and a further \$25,000 from the magazines and directory. Expenditure at this stage is expected to be reasonably low unless there is a specific activity unidentified to progress.

The income generated from the Trenchless Australasia magazines and Australasian Trenchless Directory was once again extremely positive. The Society outlaid \$15,000 in 2009 for a return of \$50,000 resulting in a tidy profit of \$35,000.

The 2009 Audit Reports was accepted as tabled.

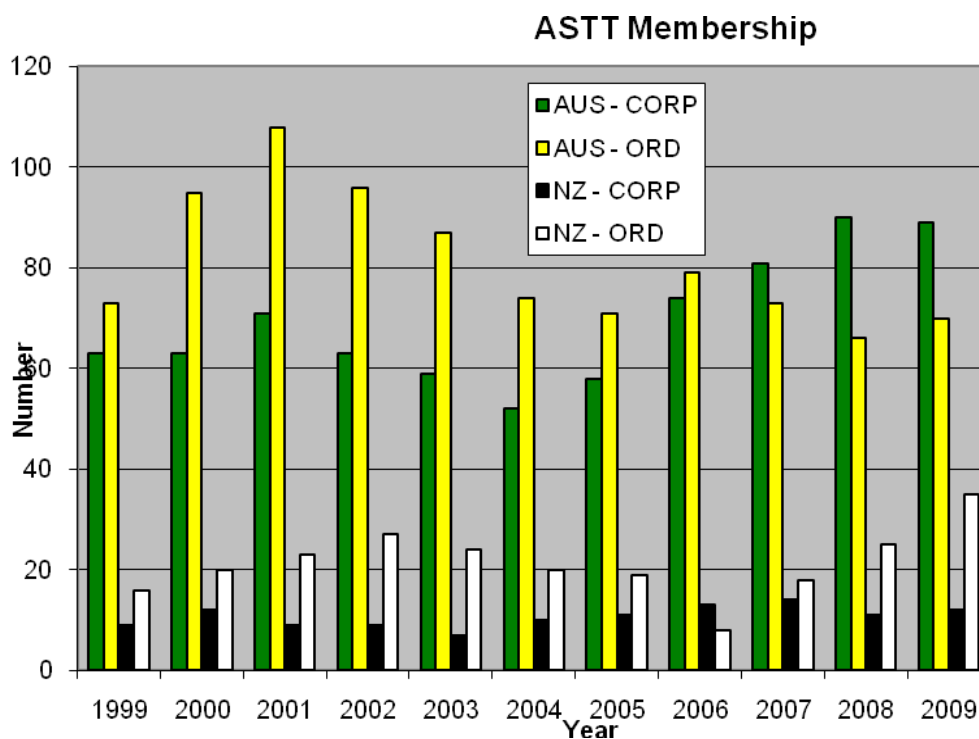
Moved: Chris Frangos and seconded by Trevor Groeneveld.

5.2 Membership

At the end of 2009, membership numbers totalled (Corporate and Individual) 206 which comprised 159 from Australia and 47 from New Zealand. Despite the economic slowdown, it is interesting to note that some members are upgrading from Individual to Corporate status especially in Australia.

This trend was pleasing because it shows the overall membership was once again starting to grow from 174 in 2006, 186 in 2007, 192 for 2008 and now 206 for 2009. This represents a modest growth of 7% for 2009. Most of this growth has come from Individual Membership from New Zealand and can be attributed in part to the National Conference we just had in Melbourne.

The table under reflects the current and past position on memberships.



March 2009 Comment

There are still a number of members that have not renewed their membership with the ASTT. Reminder Notices have recently been posted out in an attempt to prompt their late payments. 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.

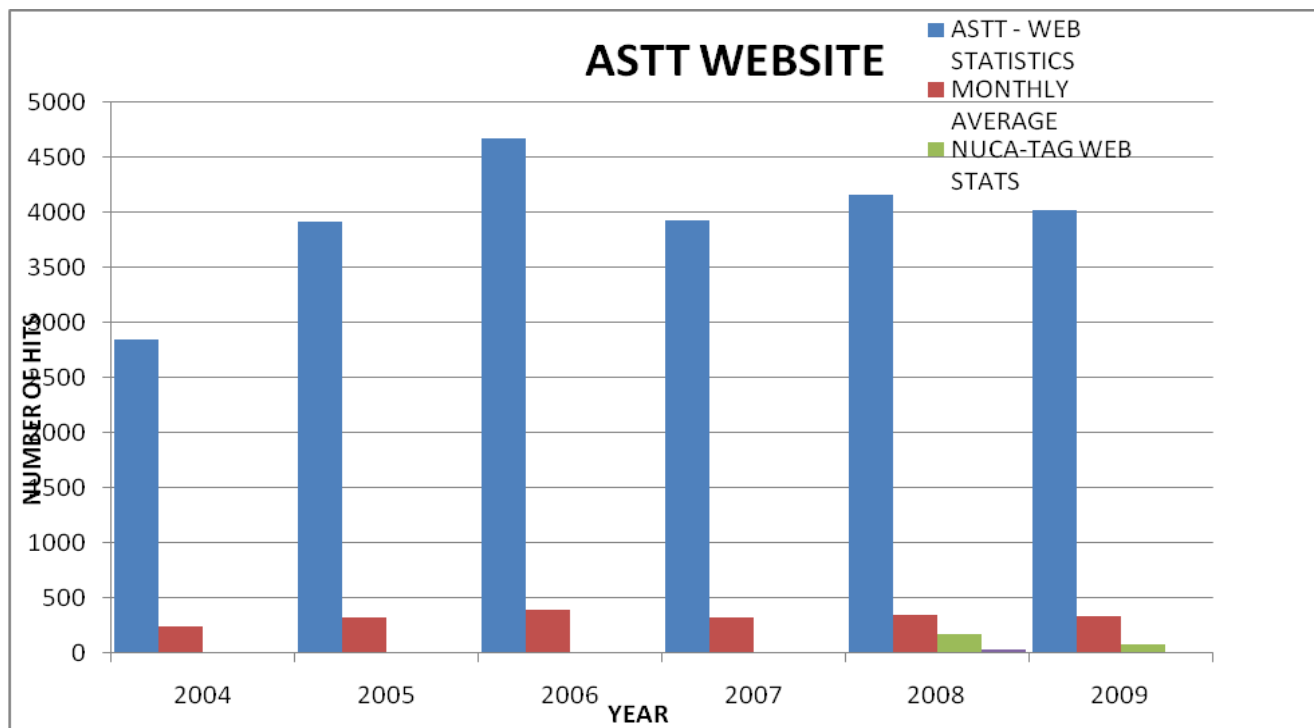
Members probably do not realise that payment of the Affiliation Fee to ISTT is directly related to the number of members (financial or otherwise) that the Society has on its books as at March 1 of each year. Therefore the Society carries the risk of paying for members that may end up cancelling their membership after March 1.

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

5.3 Internet

ASTT's homepage is constantly being upgraded. For 2009 we averaged 335 hits per month compared to 347 hits per month in 2008. With the introduction of access to NUCA-TAG in August 2008, I am disappointed with the reduction in the number of hits as these dropped from 168 in 2008 to 76 in 2009. This is something I will continue to monitor.

Work has commenced on a complete redesign of the website as requested at the last AGM. This work is still in the development stage and should be completed by the end of June this year. The table under reflects the current and past activity.



5.4 Member Services

All members are requested to visit the Member Services area of the ASTT website and confirm that the information stated is still accurate. This also means that should any member change addresses to immediately let me know so that I can notify the ISTT, Great Southern Press and update the member's database for future correspondence etc.

5.5 Trenchless Australasia

In September 2004, the Trenchless Australasia magazine was introduced to our members. To date Great Southern Press has produced 21 magazines and 3 Trenchless Directories, all of which have been very well received by industry. This arrangement continues to be a success story for the ASTT and I am confident that it will continue to realise a benefit to all involved in the trenchless industry.

5.6 Development of Trenchless Guidelines Standards and Specifications

The ASTT in conjunction with Calibre Projects has now completed the development of Trenchless Guidelines, Standards and Specifications in the key areas of HDD, Pipe Bursting, Micro Tunnelling and Pipe Jacking.

These documents can now be viewed on the ASTT website by going to the Trenchless Guidelines link.

Refer: <http://www.astt.com.au/trenchguide.htm>

6. Councillor's Reports

6.1 New South Wales - By John Monro

The past year has seen further consolidation of Trenchless Technology as a mainstream part of civil engineering in NSW. Various Trenchless Technology members have been successful in raising the industry's profile in both the engineering and general communities.

In May 2009 the Streets Operating Conference (SOC) held a Conference in Sydney to celebrate 100 years of its existence. The SOC coordinates activities and Standards between Road Authorities, Councils and Utility Service providers regarding the installation and maintenance of underground services.

About 100 delegates gathered in Sydney to hear presentations for industry practitioners and to discuss industry issues. The ASTT was invited to participate and a presentation was delivered entitled "Trenchless Technology – Emerging Technology."

It was clear that many delegates had little knowledge of the subject, and seemed somewhat fascinated at what Trenchless Technology could offer.

A recurring theme that obviously causes conflict is the different expectations of asset owners and utility providers concerning the degree of restoration that should be provided when a street is "opened" to install, maintain or repair an underground service. Conflict could of course be avoided with the more extensive application of Trenchless Technology.

In 2009 a fatality occurred in the HDD industry when, according to the NSW Government Department's "Safety Alert" issued regarding the incident: "A subcontractor suffered fatal head injuries when he was apparently struck by a recoiling polyethylene pipe."

The Department's report is still being prepared and ASTT members were consulted to provide industry background, but it seems certain to recommend that upgraded Standards and Specifications including documented safe work practices need to be produced for the industry. NSW members have contributed to ASTT initiatives on this and will continue to make themselves available for consultation.

On a happier note, Corporate Member Interflow Pty Limited received both the ASTT's Project of the Year Award and an Engineers Australia's Engineering Excellence Commendation for rehabilitating a 2.5metre diameter sewer trunk main by installing the world's biggest continuous pipe. Measuring 633 metres in length and weighing over 100 tonnes the single length of pipe was made by spirally winding a continuous strip of steel reinforced polyethylene, welding the edges together while the whole pipe turned.

As well as impressing the Award judges, the project now features in the Powerhouse Museum's Engineering Excellence Exhibition where it will remain throughout 2010.

On a personal note, after 7 years I will be stepping down as NSW Councillor at the 2010 AGM. It has been a stimulating and satisfying experience working in a fast developing industry with enthusiastic members whose ingenuity is continuously fascinating.

I offer best wishes and support to the winning candidate in the upcoming election for the position and know the appointee will bring renewed enthusiasm to a Society that offers enormous potential.

6.2 South Australia - By Kane Scott

Rib Loc Australia Pty. Ltd.

- North Georges River project (NGRS): SEKISUI Rib Loc's Ribline product was used by Interflow to rehabilitate 5.2 kms of 2525mm pipe and this is expected to be completed this year. Interflow has already been able to set new records by lining lengths in excess of 600 metres on a regular basis.
- SEKISUI Rib Loc continues to strengthen its international position having its technology used in numerous large scale large diameter contracts in Taiwan, Singapore, Malaysia and India with diameters up to 2metres. In Singapore, there are multiple contractors using spiral wound technology. This is securing SEKISUI Rib Loc's position as the Global Leader in spiral wound technology.
- Expanda, capable of lining pipes from 150 to 750mm, is now being used in South Africa and will be making its contribution to eliminating problems in cities hosting the Football World Cup.
- SEKISUI Rib Loc's technologies have recently been used in Australia to rehabilitate pipes up to 3 metres. This diameter range is expected to be increased in the near future.
- SEKISUI Rib Loc has now added SPR to its manufacturing capability and this system is capable of rehabilitating non-circular pipes.

SA Water

Sewer

SA Water owns and manages over 8,000 km of sewer mains throughout SA with sizes up to 2600mm and some dating back to the 1880s. Trenchless Technology is a vital component on the ongoing management strategy in relation to the following issues:

- A comprehensive, prioritised 5 year program of CCTV inspection of the pipe systems began in June 2004 and was completed in 2009 with 211km of sewer mains surveyed in total. The digital video recordings were classified in accordance with the new WSSA Sewer Inspection Reporting Code. A revised CCTV contract is currently being evaluated to undertake approximately 150km for the next few years per year on the next prioritised listing of sewer mains.
- As a result of the CCTV program, relining of an approximately 2km of wastewater mains, primarily RCRJ gravity mains, ranging in size from 150 to 450mm diameter was undertaken in 2008/09 using spiral wound liners. Pipe bursting of sewer mains is also gaining momentum.
- As part of sewer extensions in the Adelaide Hills, directional drilling has been used for both sewer pumping and gravity sewers using a variety of local based contractors. Pipe diameters are at the smaller end of the HDPE range and generally less than 100m in length.
- Approximately 10km of sewer mains were subject to a Root Out trial in the metropolitan Adelaide area. The effectiveness and cost comparison to other root control measures currently being

evaluated. Some sections have been retreated following CCTV assessment. Root Out and Sanafoam Vaporooter are being used as required in country regions.

- The lining of sewer mains prone to groundwater intrusion as a result of poor condition joints and/or root intrusion in combination with high water tables.

Water

SA Water owns and manages over 26,000 km of water mains throughout SA with sizes up to 1375mm and some dating back to the 1880s. Trenchless Technology is a vital component on the ongoing management strategy in relation to the following issues:

The application of Trenchless Technology within the last year includes:

- Minor HDD/bore works on various projects for road or railway crossings.
- The Adelaide Desalination plant intake and outfall pipelines are currently being constructed using 2 x 150t tunnel boring machines to install the 1.5km intake and 1km outlet tunnels. The 1.5m diameter ADP transfer pipeline involved the use of an MTS-2000 slurry machine 1,800mm outer diameter separator unit. The technique was used to tunnel under roads and railway lines to ensure minimal disruption to traffic and general public during construction.

Recycled Water

SA Water owns and manages over 100 km of recycled water mains throughout SA with sizes up to 750mm and some dating back to the 1970s. Trenchless Technology is a vital component on the ongoing management strategy in relation to the following issues:

- The Glenelg to Adelaide Parklands (GAP) project is to provide more than 3.8 billion litres of high quality recycled water annually to irrigate the Adelaide Park Lands through a 32km pipeline network. It will be piped underground from Glenelg to the Adelaide Park Lands and CBD reducing Adelaide's dependence on other water sources, including the River Murray. HDD, microtunnelling, pipe jacking and auger boring were used for major road crossings, railway line crossings and other areas where conventional open cut techniques would have presented significant construction problems.

The trenchless technology is being applied at locations where open cut is not preferred, including crossing DTEI roads, and sections of the Park Lands near certain sensitive areas.

Trenchless Pipelaying Contractors

Work completed over the past year has been primarily for Telstra cabling and the private industry. All work undertaken has been in South Australia.

Other

- Microtunnelling and HDD is planned to install a new 275kV underground transmission line from Torrens Island power station to Keswick substation to meet the city's projected electricity demand. The project is planned to start in 2010 for completion in late 2011.
- The South Australian Department for Transport, Energy and Infrastructure has invited tenders from a short listed group of contractors for Adelaide's Living Beaches Project, which aims to protect Adelaide's coastline from erosion by installing a 22 km pipeline. This is likely to involve the use of trenchless technology for at least part of the pipeline installation to minimise environmental impacts during construction.

6.3 Tasmania – By Graeme McArthur

This year has been a very interesting one on the Tasmanian Trenchless scene although not very dynamic in terms of TT use. Most Council's eased back on their capital programmes and consequently TT opportunities with the imminent restructuring of local government sewerage and water responsibilities. I also retired from Launceston City Council after 35 yrs in July 2010.

With the establishment of the three new regional Water Corporations and an additional central body, OnStream, on July 1st 2009 covering the whole of the states' water and sewerage responsibilities that were previously the responsibility of some 29 local government authorities, the industry has changed dramatically .

OnStream has two clear business drivers, the provision of effective and efficient share service functions and the facilitation of state wide outcomes to ensure a sustainable Tasmanian water and sewerage industry, and the achievement of community and stakeholder expectations. The three authorities now providing the treatment supply and operations are, Ben Lomond Water (in the north/east), Cradle Water (in the North West) and Southern Water (in the south). The majority of their time to date has been spent establishing each business entity, ensuring ongoing maintenance, planning and building applications and construction, and completing capital projects-in-progress with little new work.

With the massive job of reprioritising and consolidation of all the councils' sewerage and water programmes into three regional programmes, contractors have reported a marked slowdown in CCTV, trenchless maintenance works and capital projects this year. One of the major contractors has opted out of CCTV, drain cleaning etc to concentrate on mainland opportunities with relining with the reduction in capital works at the moment.

Membership currently rest at three with no known interest in the pipeline.

Other service providers like electricity, communications or the gas company, as previously, are likely to rely on contractors doing the work and therefore not require the benefits that the Society can give. Contractors also have been reluctant to take up membership possibly because of the intermittent and limited scope of work in the state.

Currently the Broad-band rollout, commenced in September 2009, has been reported as promoting trenchless opportunities where viable as the current 5km contract rollout continues.

Similarly ASTT membership has now likely to have bottomed with most Councils undertaking very little stormwater works, a responsibility they still retain, but insufficient to justify continual membership of the Society. My estimation is that the best ASTT can look forward to is one membership from each of the three authorities actually doing the work. These I am chasing up with my old contacts and hope that allowances can be made in their current 2010/11 budget considerations.

Reluctantly, this is also my last report as Tasmanian Councillor as I believe I will be unable to do the position the justice it deserves in the foreseeable future. Over the years I have seen many trenchless products used in Tasmania in all service applications from the earliest CCTV studies to insertion of PVC and fibreglass liners, service line repairs from within the pipeline and recently ovoid pipeline relining in GRP, swage lining, hdd , in all sizes etc. Although not huge in number or volume it does show that TT has been accepted as an alternative but due to economies of scale cannot always be used economically compared with trenching in our shallower services.. With the three new authorities established TT may become more economically viable due to the economies of scale the larger programmes that the water corporations will present.

I have enjoyed my long association with TT and particularly with ASTT tremendously and will miss the interaction with all ASTT councillors, TT and the consequent projects that will eventually occur in the future. I will still keep up through TT news as long as I can stay on the list and will be only too happy to help out if ASTT needs some local knowledge.

I have seen considerable change in the ASTT over those years with much credit going to you, Jeff and Menno for your foresight and long time leadership and with excellent support of all previous and current state Councillors over that time. It is tremendous that we now have guidelines and standards and software calculators etc for ease of option evaluations for comparison of construction methods both established for users by ASTT. I can see ASTT progressing equally as well with President Trevor and the support of all the ASTT state councillors and a renewed interest in infrastructure upgrading.

Many thanks to all past and present councillors for their professionalism, advice and friendship over my time with ASTT. Best wishes Trevor for your time as president however long you serve and I wish you and ASTT every success in the future

6.4 Victoria – By Chris Frangos

Overview

Trenchless Technology in Victoria continued to grow throughout 2009. The focus on water shortages and leakage reduction has continued to keep the water industry in the public eye.

A number of large scale infrastructure projects such as the Sugarloaf Pipeline (completed in 2010), the Desalination Plant, Melbourne Main Sewer Replacement and Northern Sewerage Project are all in progress and expected to be completed in 2012. Apart from the reduction in new products during 2009, it is expected that investment in infrastructure will continue in the foreseeable future.

Infrastructure replacement projects are seeing more and more trenchless options raised as viable alternatives to traditional construction techniques.

As new developments in trenchless methods progress, managers of infrastructure, particularly in the pressure pipeline sector are now looking at new methods of asset replacement.

Membership

Membership in Victoria has remained constant and the level of membership has not altered significantly. No membership enquiries have been received throughout the year.

Very few requests for information or assistance are received from the membership/industry and contacts are generally limited to directional drilling troubleshooting and standards issues.

Promotion of Trenchless Technology

The ASTT National Conference was a resounding success during 2009. The Trenchless Australasia team managed the event professionally and excellent feedback was received from all attendees encountered. I would like to thank the contribution of our members that volunteered to assist with the technical review of papers in preparation for the conference.

The one day seminars undertaken by Dr. Dec Downey and Dr Sam Ariaratnam at the conclusion of the conference were well attended and useful to the participants and the positive feedback received from attendees was encouraging.

Water Industry Overview

Renewal Projects

Sewer rehabilitation across Victoria continues to be predominantly via trenchless methods. Water Authorities in Victoria are spending in excess of \$50 million per annum on trenchless sewer rehabilitation mainly in the diameter range of 150mm to 900mm.

Water main renewals using pipe bursting have grown throughout 2009 and this technique is becoming the routine method rather than the exception. In metropolitan Melbourne between 80% and 90% of water main renewals are undertaken in this way especially in reticulation diameters (100mm – 225mm), and in regional Victoria there is a large variation from authority to authority, however a number of regional water authorities have embarked on term water renewal contracts using pipe bursting.

More and more regional authorities are investigating trenchless and semi trenchless options. It is expected that growth in trenchless methods will continue.

Planning for large water main renewal projects in inner urban areas continue to consider a number of techniques ranging from Microtunnelling, directional drilling and sliplining. Larger projects using these techniques will continue in 2009 due to the costs of reinstating other infrastructure and private property associated with open cut techniques.

New Infrastructure

The current program of infrastructure investment has seen an increase in large tunnelling projects to extend major trunk sewers, for example the Northern Sewer project and Melbourne Main Sewer Replacement. Projects of this type have necessitated the creation of joint ventures and alliances to enable the delivery of large capital projects.

Challenges for 2010

In a post conference year, it is important to maintain interest and provide opportunities to network. The first ever Trenchless Live in October will provide these opportunities.

6.5 Queensland – by Andy Krumins

With Completion of drought driven projects, the pace of Regional Pipeline Projects has slowed to what may be classed as reasonable and trench less methodologies still a requirement for environmental reasons such as the Rockhampton Gladstone Pipeline with numerous watercourse crossings.

In Brisbane, development of a bound city with high population growth has resulted in an upward/Brownfield scene where water /sewerage infrastructure required is nearly 100% trench less. Two such contracts will be left shortly for sewer upgrades at Bulimba Creek stage 1 (one) and the “Gabba” Upgrade – to a value of \$150M plus.

Traffic and rail tunnels in Brisbane both under construction and proposed, will keep the bigger trench less brothers busy for the next decade and more.

The renovation market is still growing – driven by the consequences of poor engineering of “cheap” sewer systems and older networks reaching the end of their economic life. In the latter case, QUU has adopted a strategy of constructing interceptor sewers and then relining the old sewer as this provides for relining without by pass pumping and delivers flexibility in operating the network.

There still appears a lack of skills in trench less works from the consulting engineers and QUU has sourced expertise from overseas.

A milestone was reached last year with the 10 year inspection of the relined high pressure sewerage mains between Eagle Farm Pumping Station and luggage point.

A paper was presented at the 2000 International in Perth on this project and I am please to report that apart from minor defects, the work has stood up well and will protect the mains for many years to come.

It will also precipitate a paper at our next conference.

6.6 New Zealand - By Steve Apeldoorn

Despite the difficult economic conditions, the New Zealand Trenchless industry continues to grow and mature. 2009 has seen an increase in the number of trenchless Contractors entering the market; this has been most notable in the lining/rehabilitation market with a number of smaller contractors now offering patch and full length liners (predominantly CIPP), and new Clients (particularly local government) utilising Trenchless Technology to construct and rehabilitate their deteriorating assets. In general the scale and complexity of all trenchless projects have increased with bigger diameters, longer distances and at flatter grades being undertaken.

We have received continuing enquiries from international organisations, (equipment manufactures, material suppliers, Contractors and Consultants) looking at the opportunities to enter the market. These enquiries have been typically from Asia (in particularly Singapore) and Europe (in particular Austria) but also the United States.

Over the last year a number of trenchless technology events and initiatives have taken place in New Zealand, some of these include:

- New Zealand Trenchless Technology Forums: Ongoing since the first forums in November 2007, the ASTT have held another three forums in Auckland over 2009, hosted by ProjectMax, on issues facing the industry including Location of Underground Services (March 2009), Contracting Strategies for Trenchless Projects (July 2009) and Preparing for a successful Drilling Project (November 2009). Attendance at these events has continued to grow with now up to 75 delegates attending each of these forums with good diversity of players from across the industry including Utility engineers, Contractors, material suppliers and Consultants.
- Introduction of HDD Qualification: the New Zealand civil industry training organisation (Infratrain) released in November their 'new' Horizontal Directional Drilling Qualification. This qualification has been developed in partnership with the New Zealand trenchless industry for people working in HDD operations. The qualification covers the driller, tracker and site supervisor roles. Training is done 'on the job'. The cost of training is subsidised by the government. This has been well received by the industry.
- Rotorua "Live" Trenchless Demonstrations: The ASTT organised a live demonstration event at the WaterNZ (New Zealand Water & Wastes Association, NZWWA) conference in Rotorua in September 2009. The event was held during the Lunchtime session on the 2nd day of the Conference and was well attended. The demonstration provided the delegates at the water and wastewater conference the opportunity, for some the first time, to see trenchless technology in action.

- Facilitating the Deployment of Broadband Infrastructure: The New Zealand Government is consulting on a range of regulatory and non-regulatory measures that will support the roll-out of both the government's recently announced \$1.5 billion ultra-fast broadband investment initiative and the rural broadband strategy. On 7 October 2009, Communications and Information Technology Minister Steven Joyce released a discussion document seeking comments on measures related to access to support structures and services, access to land and Resource Management Act controls for public comment. The ASTT submitted a cross-submission document to the Ministry of Economic Development in response to the discussion document outlining the use of HDD to facilitate the infrastructure for the broad band roll out. A copy of the Governments discussion document and ASTT cross-submission document are available from the ministries website <http://www.med.govt.nz/templates/StandardSummary42022.aspx>
- A copy of the ASTT cross-submission is also available from the ProjectMax blog site www.projectmax.typepad.com.

In 2010, the ASTT in New Zealand has a number of events and initiatives already planned to continue to promote trenchless technology and implementation of training. Some of the events for the year ahead include:

- Ongoing Trenchless Technology forums. The first of these is planned for March 18 at the Heritage Hotel Auckland with the topic “Trenchless Pipe Materials; Advances & Future Directions”. Four pipe manufactures will present and lead discussion on different trenchless pipe materials (PVC/PE, Ductile Iron, Concrete & FRP). Following forum topics are planned to examine advances in Trenchless equipment and investigation and rehabilitation of Pressure mains. The forums to date have been held in Auckland and it is intended that similar forums also be held in the lower North Island and the South Island.
- A dedicated “ASTT Trenchless Technology Stream” will be held at the WaterNZ (NZWWA) Conference in Christchurch 22nd to 24th September 2010. Call for abstracts close 31 March. Similar successful streams have been held at these conferences in 2003 & 2005.
- Continuing dialogue and involvement with Infratrains, the civil industry training organisation to promote the HDD qualification and explore opportunities to develop qualifications for other trenchless techniques.

I have confidence that the immediate outlook of trenchless technology in New Zealand is bright; there are opportunities for organisations to offer innovative solutions to significant infrastructure problems that could place trenchless technology very much in ‘spotlight’. In particular, opportunities exist in providing solutions for the rehabilitation of pressure rising mains and the roll out of the new ducting for broadband fibre cable.

7. Election of Council

A call for nominations for election to council was posted to all members on January 25, 2010.

John Monro has stood down from his role of NSW Councillor after several years in this role. Trevor thanked him for his efforts over this period

There were 2 nominations received for NSW, these were from Mr Peter Brown from Trenchless Advisor and Mr Phill Cook from ITS Trenchless. There were no other nominations received by the cut off date of February 26, 2010. As a result of receiving these nominations, it was necessary to call for an election.

All 54 NSW members were forwarded Ballot Papers via e-mail. Of the 54 Ballots that were sent out, 30% responded.

I am pleased to advise that the successful applicant for the role of NSW Councillor for 2010 is Mr Peter Brown.

As there was no other nominations received by close of business on February 26, 2010, the ASTT Council structure for 2010/2011 is as follows:

Western Australia Trevor Gosatti	Tasmania Vacant	Queensland Andy Krumins	New Zealand Steve Apeldoorn
New South Wales Peter Brown	Victoria Chris Frangos	South Australia Kane Scott	Northern Territory Vacant

8. Election of Federal President.

One nomination has been received and that was from Trevor Gosatti, the West Australian Councillor. As there were no other nominations put forward, Trevor Gosatti was re-elected unopposed by Council.

8.1 ASTT Representative to ISTT Board.

The nominated ASTT Representative to the ISTT Board for the past 12 months was Jeff Pace. Jeff has renominated for this position. As there were no other nominations put forward, Jeff Pace was re-elected unopposed by Council.

Moved: Trevor Gosatti and seconded by Steve Apeldoorn.

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.

Moved: Trevor Gosatti and seconded by Chris Frangos.

10. Election of Vice President.

In accordance with the Constitution, a Vice President may be elected from Council if considered necessary. John Monro was the previous Vice President.

One nomination was received from Andy Krumins. As there were no other nominations from Council, Andy was elected unopposed.

11. Appointment of Auditor.

Mr Terry Machin, Accountant for Coldale Constructions has undertaken the Society's first Audit. I am pleased to advise that his work was both reasonably priced and he produced the report very quickly. I therefore move a motion that Terry Machin, Accountant from Coldale Constructions continue as the ASTT Auditor.

Moved: Jeff Pace and seconded by Trevor Gosatti.

12. Business Plan – Progress of Initiatives

Network Development

- Membership increased 7% from 192 for 2008 to 206 for 2009.
- Currently working with NZWater for an event in Christchurch this year.
- Great Southern Press are redrafting the events agreement.
- Currently working with Great Southern Press on the ASTT website upgrade.

Training and Education

- Work has commenced on the development of training modules for Vacuum Excavation and the importing of the current CCTV Conduit Evaluation package to the civil stream of competencies.
- Undertake up to 3 trenchless forums across New Zealand.

Standard and Guidelines

- This project is now complete and available for viewing on the ASTT website
- Refer also to item 5.6 of these minutes.
- Ongoing monitoring of access to NUCA-TAG

Promotion

- 4 Trenchless Australasia magazines produced in 2009.
- Trenchless Directory produced in 2009.
- Melbourne National Conference and Exhibition held in 2009.

The Business Plan for 2010 has been updated and published on the ASTT website.

13. Trenchless Guidelines Update

This project is now complete and available for viewing on the ASTT website
Refer also to item 5.6 of these minutes.

14. Utilisation of Great Southern Press.

14.1 Magazine

Refer to item 5.5 Trenchless Australasia of these minutes.

14.2 Conference Management

Great Southern Press has previously put forward a DRAFT proposal to undertake the management for future events. After further discussion with the Great Southern Press, it was agreed that the document as submitted required a redraft. Work is progressing on the development of this document.

14.3 Coffs Harbour Trenchless Live

Chris Bland gave a report on progress of the next event that will be held over October 17- 20 at Coffs Harbour in NSW.

In summary he reported that he is liaising with the Coffs Harbour Shire for live demonstrations on site and live work also.

Approx 30% of available space has been taken up thus far.

The event will go for 3 days and he is currently considering providing a free key note speaker each day as well as including a free coffee type breakfast daily.

Based on feedback, Chris advised that people want to hear case studies of actual projects and make provision of a “super panel” to discuss what technology is best under different circumstances.

Finally he added that he would like to offer some specialised training.

15. General Business

Steve Apeldoorn suggested that in order to get more benefit from the NUCA-TAG link, it would be beneficial to provide additional promotion to groups like AWA, NZWater etc as to what it is and can provide.

Ben Sheehan suggested that all members should have their own websites linked to the ASTT website and not just the ASTT linking to the member's sites. Ben stated that he would draft up something for consideration to send to all members. Chris Bland added that he would provide a suitable ASTT logo to go with the memo.

Ben also mentioned that he was getting Frank Canon and other to come from the USA to the east coast in May 2010 to undertake a series of free 2 day HDD seminars. After discussion on this initiative by Vermeer, it was agreed that the ASTT would show its support to this event by permitting the addition of the ASTT logo on the promotional material.

Chris Frangos indicated that it may be a good idea to introduce a National Award to University Students by way of a scholarship to the value of \$5000. The award would be for trenchless work.

Trevor Gosatti indicated that the ASTT needs a "policy document" to be prepared that promotes what the ASTT is about and the technologies available. This document could then be sent to the appropriate Ministers etc across Australia and New Zealand. The National Broadband Project is a typical project that this would apply to.

16. Next Meeting

The meeting closed at 7:00 pm.

The next combined Council and Annual General Meeting will be held at a time and venue yet to be determined

Minutes compiled by:
Jeff Pace
Federal Secretary
March 14, 2010
