



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

Held on Monday October 30, 2006 at 5.45pm in meeting room 1,
Brisbane Convention and Exhibition Centre, Brisbane.

ATTENDING:

Menno Henneveld	-	Chairman of ASTT
Trevor Gosatti		Western Australian Council Representative
Chris Geehman		Victorian Council Representative
John Monro	-	New South Wales Council Representative
Kane Scott	-	South Australian Council Representative
Graeme McArthur		Tasmanian Council Representative
Andy Krumins		Queensland Council Representative
Grant Binns	-	New Zealand Council Representative
Jeff Pace	-	Secretary / Treasurer

Also attending were: Lance Horlyck, Bill Goodman, Mick McGill, David Cox, Sudipta Basu, Stewart Brown and Nic Apostolidis.

1. Open Meeting.

Jeff Pace Secretary of the ASTT opened the meeting, welcomed the new Councillors namely Kane Scott, Chris Geehman and Trevor Gosatti 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.

There were no apologies received.

3. Minutes of the previous meeting.

The minutes of the previous meeting held in Auckland dated September 29, 2005 were accepted as a true and correct record.

Moved Trevor Gosatti and seconded by Grant Binns.

4. Chairman's Report

4.1 Future International Events

2007: - There had been a change of venue and style of the No-Dig planned for Bologna. This was now the Mediterranean No-Dig to be held in Rome over 10-12 September, 2007. There were also an additional three Regional events to be supported by ISTT during 2007 to be held in Dubai (March), San Diego (June) and Macau (November).

2008; - The International No-Dig to be held in Moscow in June and will incorporate the parallel running of the No-Dig with ECWATECH and City Pipe.

2009. - The International No-Dig to be held in Toronto, Canada in March 2009. There had been two bidders for 2009, with Brno in the Czech Republic the unsuccessful bidder. The CzSTT had been approached to have Brno become a regional event as it was not likely to clash in either time or location with Toronto.

2010. - It was possible that the International Expo planned for Shanghai in 2010 would make the newly formed China Society for Trenchless Technology a likely candidate.

4.2 Affiliation Status of Societies.

GSTT. - The Board had endorsed ESC actions for the GSTT to remain affiliated with associated status until it had resumed paying the full Affiliation Fees and continued to pay off the debt incurred in Hamburg in 2004.

IndSTT. - Because of the precarious nature of the IndSTT finances and the lack of sincere responses to many requests to deal with the matter, the ISTT Executive Sub-Committee agreed reluctantly to de-affiliate the IndSTT, effective end of 2006.

Lithuania. - There had been a request from a Lithuanian group of trenchless technologists to affiliate. The group had been in existence for 8 years and comprised 20 members who expected the number to increase to about 30 next year. The request would be considered after a due diligence on the group.

China. - The coalition of Chinese city Societies had still not received approval to form a single national group. One difficulty was finding a Chairman who would need to be at Minister level. It had been agreed that Mr Gong would be the Secretary General and in day to day control. The application was with government officials awaiting approval to start recruiting prior to completing the formation procedure. Mr Gong had said he felt that there was a 50/50 chance of getting approval quickly although in the long term he was confident that a single China Society would be formed.

5. Secretary/Treasurer's Report

5.1 Financial Report

Jeff Pace reported on the financial status of the Society.

He referred to the 2005 Auditor's Report that was tabled, and highlighted the following points to note. Last year the Society boosted its performance with a positive outcome of \$48,675 compared to \$7,699 in 2004. This boost was mainly due to the profit of \$13,793 from the Melbourne Conference and positive growth in membership subscriptions.

The income generated from the Trenchless Australasia magazine through Great Southern Press for 2005 was effectively cost neutral to the Society. This will be a different story in 2006 with advertising

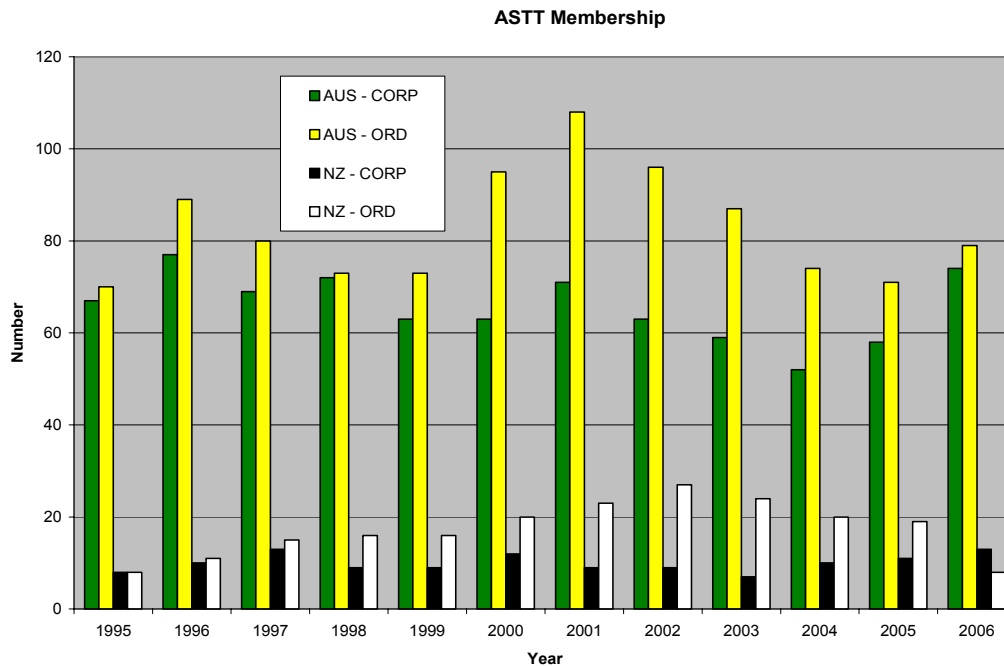
sales increasing resulting in additional income for the ASTT. It is anticipated that the income for 2006 will be in the order of \$10,000.

The financial report was accepted, moved Chris Geehman and seconded by Trevor Gosatti.

5.2 Membership

The current trend is pleasing because it shows members once again seeking Corporate status instead of Individual. This naturally provides a positive impact on the Societies income. As at September 30 we have 178 members of which 88 are Corporate and the balance 90 are Individual.

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



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.

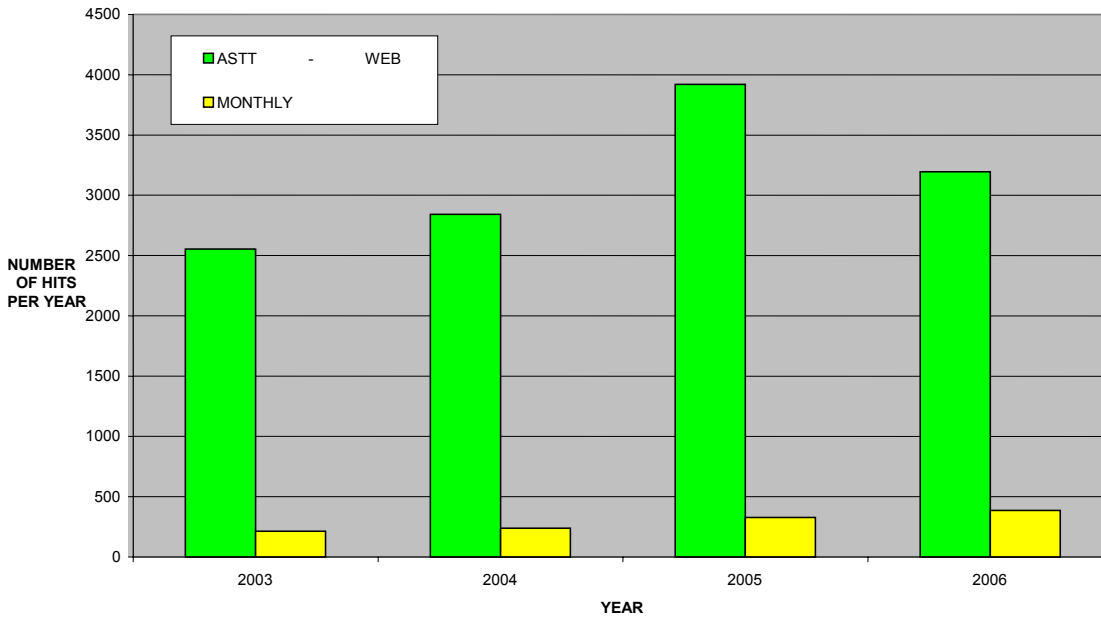
Members probably do not realise that payment of the Affiliation Fee to ISTT is directly related to the number of members (financial or otherwise) that the Society has on its books as at March 31 of each year. Therefore the Society carries the risk of paying for members that may end up cancelling their 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. For 2003 we averaged 213 hits per month, 2004 we averaged 237, 2005 we averaged 327 and up until the end of September 2006 we are now averaging 386. This statistic is important because it shows that the site is being accessed by more and more each year. The table under reflects the current and past activity as at September 30, 2006.

ASTT



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 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 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 Great Southern Press have produced 9 magazines, 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 Enviro 2006 – Melbourne

The Australian Water Association has continued to support the ASTT by way of offering us a Complimentary Booth at their annual events. This year, the ASTT and Great Southern Press shared a booth at AWA's Enviro 2006 Conference and Exhibition that was held in Melbourne.

This combined presence is proving beneficial for both parties with Great Southern Press 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.

5.7 Ozwater 2007 – Sydney

Approval has also been granted from the AWA to allow the ASTT to once again participate at the next AWAs Ozwater 2007 event in Sydney next March. This relationship with the AWA is one that needs to be maintained as the majority of the asset owners for our industry come from the water and wastewater sector.

5.8 NZWWA - Rotorua

Preliminary discussions have been held with the NZWWA on the continued involvement with them at their national event in 2007. I can report that next year the event will be held at Rotorua instead of Auckland. To date the NZWWA's total focus has been on the running of their October 2006 Conference in Christchurch, and no decisions on theming has yet been made for other than that it will not use the EnviroNZ title.

6. Councillor's Reports

6.1 New South Wales - By John Monro

NSW members have again maintained enthusiastic support for the aims of the ASTT over the past year.

In particular our members have made and are continuing to make an important contribution to the Society's initiative to develop a nationally recognised qualification "Certificate 3 in Civil Construction (Trenchless Technology – New Installation)".

Peter Brown of Infrastructure Constructions and Stewart Brown of Ditch Witch have been in contact with Civil Train/HPOTS to assist with the development and implementation of the initiative. It is expected that the first drillers will soon be certified in NSW.

NSW Branch members were among those consulted by Standards Australia's to discuss their proposal to develop Standards for lining of sewers. It is proposed that two Standards will be developed – one for lining of sewer pipelines, one for lining of house service lines.

A head committee will be set up to oversee two subcommittees who would develop the Standards. Under an agreement with European Standards it would be possible to clone European Standards and add addendums to make them applicable to Australian conditions.

Standards Australia wants the head committee to be limited to 15 members, with 3 to come from the ASTT. They will be formally inviting ASTT as well as other relevant organisations (WSAA, AWA etc) to nominate representatives.

An important activity of the Branch is the holding of quarterly meetings, which have been attended by 12 – 20 members. This year we have been grateful for the hospitality of Sydney Water, George Fisher and Kembla Watertech who have kindly allowed us the use of their 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 industry interest.

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 2005: Lance Horlyck gave a presentation on latest options available for using enhanced cementitious products for repair of deteriorated sewers, presenting advantages and disadvantages compared with other methods such as epoxy coating. It seems we could learn from the Romans, whose concrete structures have survived for over 2000 years
- February: Mike Morris, Executive Director of the WA Branch of the Civil Contractors Federation delivered a presentation on the development and implementation of the national training package for Trenchless Technology
- May: Mick McGill gave a presentation on measures to deal with settlement caused by underground mining at Appin. Longwall mining is being done below important infrastructure including a 1,200mm diameter steel water pipeline, and expected subsidence is in the order of 1.2m. However it has been found to be not uniform and longitudinal movement is also being experienced.
- August: Stewart Brown provided a presentation on latest Ditch Witch developments. It was an impressive demonstration on how the Trenchless Technology industry is continuing to advance in experience and capabilities.

It is proposed to continue with these initiatives into the coming year.

6.2 Western Australia – By Trevor Gosatti

The Western Australian civil construction industry has been very strong throughout the last year and this has resulted into increased activity in the trenchless technology sector.

The MetroRail City Project (Client: Public Transport Authority), which was reported upon in last years report, is now largely completed by the Contractor, Leighton Kumagai Joint Venture. The project involves approx. 744 metres of twin bored underground rail tunnel under the city of Perth

Contractors, DJ & MB MacCormick have completed several large micro-tunnelling and pipe jacking projects. Amongst these are the 4 micro-tunnelling drives across rail and freeway infrastructure for the new Perth Desalination project (for the Water Corporation of W.A.). Drives for DN1800mm and DN 2150mm were required for the network pipelines on this project. Another major project of interest, which was recognized with a Case Earth Award, was the latest stage of the Perth Main Sewer project (also for the Water Corporation of W.A.) where drives of 760 metres of DN1800mm and 120 metres of DN1500mm were completed successfully.

The Infill Sewerage program, which was commenced by the Water Corporation back in the early 1990's still has a small program of works completed every year (approx. \$30 million), but it is pleasing to note that it is now the norm, rather than the exception, to choose to micro-tunnel pipes in back yard and difficult street situations.

The Water Corporation of W.A. has commenced a sewer rehabilitation program for strategic areas of potential failures near the Perth river systems. A Registration of Interest was called for from contractors and selected panelists appointed to date are both Drilline Pty. Ltd and Interflow Pty. Ltd., who will compete for a program of works going forward.

The Corporation has also been rehabilitating other small pockets of sewer failures around the Perth area, throughout the last year.

Several of Perth's councils are also instigating small programs for rehabilitating drainage pipes, many of which are damaged by root intrusion.

The conversion of pole top power to underground power continues to be completed throughout selected suburbs (mostly by trench-less methods) and it is intended that these programs will be expanded further as program funds are increased.

The number and use of CCTV inspection is increasing as Asset owners inspect their asset conditions.

ShieldLiner Limited, a Perth based trenchless technology, which 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 last year, was recently offered Federal Government funding of \$1.28 million under the AusIndustry Commercial Ready Grant program to support further research and development of the unique ShieldLiner technology.

During the year WA ASTT Councillor, Ken Walter resigned due to other commitments, and his contribution to the Society is acknowledged.

6.3 South Australia - By Kane Scott

Rib Loc

- 99% of production for domestic market in the Eastern states
- First ever large diameter project to be carried out through Interflow in Perth
- Relining of severely deteriorated 900mm pipe in Morphett Vale took place by Australian licensee, Interflow.

- Exports growing with new projects in Israel, Czech Republic, Netherlands and South Africa with continued exports to USA, Asia and Germany
- Product development continuing in Adelaide to enhance the capability of lining technology.
- Rib Loc won the SA Water Alliance Export Development Award

SA Water

The availability and capability of Trenchless Technologies is beginning to be acknowledged within SA Water and will be increasingly employed in the creation of new assets or rehabilitation of existing assets. The key benefits to SA Water with adopting Trenchless Technology are:

- Third parties not accepting the disruption of conventional technologies now that TT is available.
- Directional drilling of gravity mains through significant high points to eliminate the need for pumping stations,
- Directional drilling in easements, particularly adjacent to trees where permission will not be granted to trench due to root damage,
- Directional drilling for crossing of roadways, railways and other infrastructure,
- River crossings to provide filtered water supplies as a more economic alternative to additional water treatment plants.
- Rehabilitation of ageing large diameter trunk water mains.

Sewer

As stated in previous ASTT reports, SA Water owns and manages over 8,000 km of sewer mains throughout SA with sizes up 2600mm and some dating back to the 1880s. In 2002 a risk assessment model was developed to manage these assets. Trenchless technology is a vital component on the ongoing management strategy, as outlined in the following examples:

- A comprehensive, prioritised 5 year program of CCTV inspection of the pipe systems began in June 2004. The work will be done using the latest equipment, digital recording and classification in accordance with the new WSSA Sewer Inspection Reporting Code.
- A rehabilitation strategy has been developed for the assets at greatest risk, ie large diameter concrete mains installed prior to 1939. A 10 year re-lining program commenced in early 2004.
- SA Water is developing an overflow abatement program. Trenchless technologies will be increasing used in the cleaning and rehabilitation of the smaller diameter mains that are the major cause of overflows.
- SA Water re-uses a significant portion of treated effluent for irrigation. The salinity level of this reclaimed water is always an issue and must be tightly controlled. The reduction of saline inflows in several key drainage areas is being pursued and Trenchless Technology will be used for the rehabilitation of the pipe networks.

The application of Trenchless Technology within the last year on sewer assets includes:

- The relining of approximately 115 metres of 900mm diameter reinforced concrete rubber ring jointed sewer pipe in a reserve at Morphett Vale. The lining was undertaken by Interflow using the Rotalok system.

The likely application of Trenchless Technology planned for the short-medium term on sewer assets includes:

- Continued rehabilitation of poor condition sewer mains identified through the CCTV program. This would appear to be primarily on reinforced concrete gravity mains between 150mm and 525mm dia and 50m to >1km in length, primarily within the metropolitan area.
- 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

The key issues of relevance to Trenchless Technology in the water networks is the provision of filtered water to small River Murray townships and the rehabilitation of old, large diameter trunk mains.

SA Water is in the process of extending filtered water to the last remaining River Murray communities and townships that currently do not receive water complying with the Australian Drinking Water Guidelines. The extension of filtered water from large, existing treatment facilities is considered to be the most economically viable option to provide filtered water.

SA Water has also performed a risk assessment on all of SA Water's trunk mains to identify those mains presenting most risk to SA Water. These mains have been flagged for possible rehabilitation through the application of Trenchless Technology.

The application of Trenchless Technology within the last year includes:

- Minor HDD works on various projects for road or railway crossings.

The likely application of Trenchless Technology planned for the short-medium term on water assets includes:

- The installation of a filtered water pipeline across the River Murray between Tailem Bend to Jervois is due for completion in the 2006/07 financial year. This will require approximately 560m of 355mm diameter polyethylene pipe using HDD to traverse under the River Murray.
- Further applications to provide filtered water to other small River Murray towns.
- The rehabilitation of old, large diameter, unprotected (eg. no cathodic protection), mild steel trunk mains within metropolitan Adelaide.

Other

The installation of a horizontally drilled salt interception well at Loxton aimed at intercepting the 92 tonnes/ day of salt presently entering the River Murray from the Loxton area. This involved the installation of approximately 520 metres of 315 mm diameter polyethylene pipe at the trial site with 270m of the pipe successfully installed horizontally in the target aquifer at a depth of 18 metres below ground level. This section of pipe is perforated to allow ingress of saline groundwater, which will ultimately be pumped away from the river to the Noora evaporation basin.

Potential exists for similar applications elsewhere along the River Murray.

Trenchless Pipelaying Contractors

Work completed over the past year has been primarily for Telstra cabling and the private industry.

6.4 Tasmania – By Graeme McArthur

This year has seen the consolidation of horizontal directional drilling (HDD) as the most used trenchless technology in the state of Tasmania followed closely by CIPP where the same size is acceptable for rehabilitation.

Some hundreds of kilometers or some 55% of the total network have been installed by HDD methods by Codmah and others for the owner Powerco as part of the gas reticulation network, a project that has been running for approximately three years now.

Additionally some 3.5km of pipelines for sewerage and stormwater were undertaken separately by various Councils using HDD.

Note; figures are for Gas pipeline retic.stage 2a only as at the 30/9/06.

Location	Total Meters to 30/9/06	HDD meters to date	HDD %
Devonport	78,955	54,479	69%
Launceston	84,415	57,778	68%
Hobart	245,621	108,333	44%
Burnie	24,742	19,426	79%
Statewide	433,733	240,015	55%

Hobart based Underground Assets Services have consolidated their share of the cast-in-place plastic (CIPP) with "Multiliner" contracted works with various Councils ranged through the sizes, 900, 600, 450, 400, 300, 225 and 150 in lengths varying from 20m upwards and have made a number of forays into the mainland of Australia totalling 11,400 m in all sizes from 150 up to 900mm with tremendous success as far north as Townsville and at Caboolture, Barwin and GWM Water .

The total mileage for the state is currently about 30kms over the last five with the major portion being done in the last two years. In addition the UAS repertoire includes Inline Patch repairs, utilised in many locations for the repairs up to 1050mm of mains where deemed applicable or cost effective.

It can certainly be said and backed up that trenchless has matured in Tasmania when we are exporting the technology to the Australian mainland.

And I am told from a source close to the management there is more innovation and state of the art still to come.

Roadbore the other Hobart based and one of the earliest TT companies in Tassie and still in the pipeline installation and rehabilitation business and a dominant HDD company, has now changed hands and became Launceston based with support from the previous owner Dennis Vout..

A new learning curve extending their experience from a civil contractor base to HDD in deep and in varying soil conditions is now challenging the new owner Paul Zanetto to extend the versatility of HDD for the benefit of the local community in future.

Paul already reports,

- an enthusiastic acceptance by Council's of the method widely being used for general road crossings by pipe ramming and HDD and general hammer work in sizes varying from 100mm to 600mm.

Work undertaken by HDD,

- 3no. 320mm dia. bores under the major outlet road in Hobart , the Brooker highway, 40 m of 125mm dia for gas in Hobart.,
- 380m of 180 poly water main at Launceston Airport,
- 95m of 200polyand 80m of 315 poly for stormwater for West Tamar Council.
- and a private development for sewers in Launceston of 160mm poly, 350m long and up to 6 m deep.

Work by sliplining

- 800m of 90 poly rising main for Dorset Council on the north east of the state.

Work undertaken by pipecracking

- 350 m of 180 poly pipe water main for West Tamar Council,
- 140m of 160 poly and 285m of 250 poly for Launceston.
- 1500 m of 90 rising main for North Midlands Council
- and 200 m of 315 of poly for West Tamar council underway or in the near future.

Other Councils reported extensive use of CIPP TT as follows.

Launceston

Launceston, has lined some 30 jobs in a variety of sewers and stormwater in diameters from 150 to 900 for full length relines and patch repairs over the last 2 years.

Hobart

Gravity sewer 150 dia 242 and 37m long

Gravity stormwater 300 mm dia and 120m long
Devonport
Gravity sewer 144mm dia 167 m long 3.5m deep

Other councils utilizing various diameters and lengths of CIPP repairs were, Glenorchy, Break 'O day, Clarence, Kingborough and Kentish .

Latrobe

Roadbore have all new and replacement water services in 50mm pvc conduit installed by HDD.

West Tamar

Gravity stormwater 200 diameter, 94 & 61 m long , and
gravity sewer 300 dia 237 long on 0.67% gradient under roads and in developed gardens installed by HDD.

MEMBERSHIP

Membership is currently static at about 6 in Tasmania.

CONCLUSION

A supporting gesture was graciously made to subsidise a young professional to this conference in conjunction with the Tasmanian Branch of IPWEA, FAMET grant of \$2000 and corresponding reduced entry fees to the 6th International No-Dig Conference but no applicants have been received to date. More work needs to be done to increase the number of young professional attendees with such support as this to ensure succession planning occurs for the good of the TT industry and the Society.

A concerted effort was made with TAFE and the University of Tasmanian to revitalize the use of the E Education package with these institutions and satisfactory feedback indicates the promotion of TT in their course structure is mainly in practical and construction technique subjects.

Feedback from a couple of Tasmanian participants who attended the Trenchless Technology, the 'Unseen Solution' in Melbourne in July 2006 indicates a new awareness of many untried options to date. The seminar was very well received and the papers presented gave a very good indication of the opportunities available with trenchless technology to a new audience. Congratulations to the organizers, Chris and his associates. I would like to think it might be possible to extend this seminar for the benefit of more Tasmanians in Tasmania in the future. I believe it would be well be received.

6.5 Victoria – By Chris Geehman

Overview

Following the "retirement" of John De Grazia from the position of Victorian Councillor during the year, I was unashamedly "dobbled in" by John to take over the role. However, this is an opportunity to officially thank John for his efforts as Councillor and, in particular, his drive and enthusiasm in chairing the Organising Committee for what turned out to be a very successful 6th ASTT Conference in September 2004.

Membership

There are 34 Victorian members listed at present, although efforts to contact one of the members have proved unsuccessful.

Promotion of Trenchless Technology

Great Southern Press (publishers of ASTT's magazine) organised a one-day seminar at the Hilton Hotel, Melbourne on 12 July. The theme of the seminar was "Trenchless Technology – The Unseen Solution" and was targeted at those wanting an insight into the pro's and con's of TT, in particular local government organisations

from Victoria, New South Wales and Tasmania. Almost 90 people were in attendance and the various presentations and panel discussions were well received – and we got in some good “plugs” for No-Dig 2006.

Water Industry

While more and more water main renewals are being carried out using TT, there is still a significant variation in the level of application. Some water utilities use TT on as little as 10% of their projects while with others it is up to 90%. However, one authority that last year used TT for some 20% of their total renewals expects this to increase significantly in 06/07. Predominantly the TT renewals of water mains are by the use of pipe cracking. The common diameters being renewed are 100 and 150mm.

Where authorities have been replacing sewers nearly 100% of the work is by TT, mainly using close-fit pipes, liners (spiral wound or cured-in-place). Diameters are in the range of 150 to 450mm.

South East Water completed the construction of the Hallam Valley Main Sewer and during the 05/06 installed some 2.4km of 1500mm (total 8.4km) and 0.6km of 900mm (total 0.9km) sewers using the pipe jacking process. This project is the subject of a Paper at the No-Dig 2006 Conference

Melbourne Water has advised of a number of significant projects for the future. These include the Northern Sewerage Project, which involves some 9 kms of 3.3m diameter tunnel that is to be constructed using an Earth Pressure Balance TBM.

Challenges for 2006/07

Local stormwater drains are, unfortunately, a part of the pipeline infrastructure that tends to be forgotten. We need to further spread the message amongst councils on the advantages of using TT in the renewal of what will be the next major challenge for the water industry.

6.6 Queensland – By Andy Krumins

The international no dig down under 2006 has by coincidence arrived in Brisbane at a time of extreme activity by the industry in south east Queensland.

In particular the report highlights three main areas:

- the “north south bypass tunnel” contract was let to provide a traffic tunnel from Woolloongabba to Bowen Hills under the Brisbane river at a cost in excess of \$3 billion, and extensions to the airport which are not yet costed.
- the western corridor recycled water scheme that will provide power stations at Swanbank and Tarong with an alternative water source from luggage point, Oxley creek and other smaller waste water treatment plants. this involves over 200 kilometres of pipeline and is part of the governments \$5 billion plus drought management suite of projects. it includes three river crossings and more than fifty two creek crossings.
- minor works such as two river crossings (for Brisbane Water) and associated pipelines. these are large projects just on near completion but minor when compared to the other projects mentioned.

the impacts of these and other projects such as the Burdekin pipeline have left the rest of our industry without access to any pipes, consultants, and with a mining boom, a shortfall of 14% in the workforce for the state.

Most energies have been focused on No Dig down under 2006, and outcomes are being revealed to you as the days pass.

It has not been an easy path, but no more difficult than expected, as the devils rode out of the detail in numbers.

Thanks to the ISTT, ASTT, members and the organising committee who performed miracles – and a special thank you to Nick Apostolidis for the program compilations panel beating and Menno and Jeff for their valued advise and wisdom.

6.7 New Zealand - By Grant Binns

State of the Market

Trenchless technology is still a construction solution struggling to gain general acceptance in the market and I am sure this is with us for some time yet.

In saying that the industry continues to slowly develop and gain converts.

Education and promotion is the key to the future of the industry. More seminars and more involvement with other groups such a NZ Water & Wastes Association, Institute of Professional Engineers, Institute of Local Government Engineer etc is required.

We continue to see contracts with either the wrong technology or using incorrect tolerances for the technology. This situation is frustrating and can make the tender process very difficult for those who know and work in the industry but the situation will resolve itself eventually.

However in making these comments and from the limited feedback I have obtained from locals members, most of 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.

It would appear that the more specialised parts of the industry such as micro tunnelling are experiencing fluctuations in workload. Drilling and rehabilitation projects continue to offer an increasing workload with some challenging projects added to the mix as well.

The future for the rehab market is bright with many local authorities acknowledging that they need to spend significant amounts on their infrastructure.

Conference

Our combined NZWWA / ASTT conference EnviroNZ 05 proved to be very successful with good attendance at all of the ASTT presentations.

This 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 what we have to offer.

To this end we had Samuel Ariaratnam from the Arizona State University present our Iplex Pipelines keynote address. Sam outlined where the TT industry has come from, where the TT industry sits now and what it currently has to offer, and where the TT industry going in the future.

This was very well received by more than 200 attendees at this session.

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

It was however disappointing that more ASTT members didn't attend (especially from Australia). These events involve a lot of work for a few people and it would have been nice to see more support.

A big thanks to Phillip McFarlane from ProjectMax who ended up with more than his fair share of the work.

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 to ensure that we maintain a continuing and growing workload. 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.

The issue for the future is finding the right people with the time available to carry out this promotion.

7. Election of Council

A call for nominations for election to council was sent to all members on September 1, 2006.

As there were no nominations received by close of business on October 1, 2006, Council will remain as it currently is.

Council for 2006/2007 is as follows:

Western Australia Trevor Gosatti	Tasmania Graeme McArthur	Queensland Andy Krumins	New Zealand Grant Binns
New South Wales John Monro	Victoria Chris Geehman	South Australia Kane Scott	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.

Moved Trevor Gosatti and seconded by Grant Binns.

8.1 ASTT Representative to ISTT Board.

The nominated ASTT Representative to the ISTT Board for the next 12 months will be Menno Henneveld also moved Trevor Gosatti and seconded by Grant Binns.

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 Chris Geehman and seconded by Sudipta Basu.

10. Election of Vice President.

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

Moved Trevor Gosatti and seconded by Chris Geehman.

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

12.1 Business Direction

The ASTT has negotiated a "Heads of Agreement" with Great Southern Press for a trial for the managing of our 7th National Conference and Exhibition that will be held in Sydney in 2008.

Great Southern Press has continued to produce quality magazines for the ASTT and the target of 4 magazines per year will continue.

Our relationships with the AWA, CCF and the NZWWA continues to grow. Evidence of this is by way of permitting the ASTT to have a complimentary booth at events run by AWA and NZWWA. The CCF has been our focal point for the development of trenchless competencies.

12.2 Standards and Guidelines

As reported at the last AGM, two excellent reports were produced by consultants one of which provided Industry feedback on the Trenchless Technology industry and the other outlined the Framework for Trenchless technology Guidelines, Standards and Specifications 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 best implemented

12.3 Training and Education

Certificate III in Civil Construction (Trenchless Technology) can now be undertaken for the areas of HDD, Microtunnelling and Rehabilitation.

Listed under are the Competency Training packages that have been endorsed by Australian National Training Authority (ANTA)

New Installations

BCCTT3001B – Conduct fluid assisted directional boring

BCCTT3002B – Conduct impact moling, ramming and augering

BCCTT3003B – Control micro tunnelling and pipejacking

BCCTT3004B – Undertake on-line replacement for existing pipeline systems

BCCTT3005B – Undertake localised repair and sealing of existing pipeline systems

Rehabilitation

BCCTT3006B – Install cure in-place linings for existing pipeline systems

BCCTT3007B – Spray ling for existing pipeline systems

BCCTT3008B – Install close fit linings for existing pipeline systems

BCCTT3009B – Install slip lining in existing pipeline systems

BCCTT3010B – Renovate large diameter pipes and chambers

Training can only be undertaken through (RTO's) Registered Training Organisation accredited to deliver these packages.

AQF levels 4, 5 and 6 have now been endorsed and will be made available next year.

12.4 Promotion

The Society has continued to be active in this area by way of promotion for the Brisbane International Conference at various venues in Australia and overseas. Our magazine Trenchless Australasia has also been utilised.

13. Brisbane 2006 NO-DIG Update

Andy Krumins advised the meeting that 68% of those attending were from Affiliated Societies as at the 30 October, 2006. Some 700 delegates have now registered with more expected over the remainder of the conference. The exhibition was a sell out with some 14 countries being represented.

A total of 1465 square metres was confirmed with some 90 exhibitors participating. Sponsorship of \$147,400 (GST Inclusive) was reached from some 11 Companies. Vermeer were the major sponsor.

14. Location of 7th National Conference and Exhibition

Great Southern Press put forward a proposal to undertake the management for our future events. After consultation with the ASTT Council, it was agreed that Great Southern Press be given the opportunity to trial this concept and that we would review after the event. To this end it has been agreed that the 7th

National Conference and Exhibition will be held in Sydney in the first quarter of March 2008 at a venue yet to be determined.

It was also agreed that Great Southern Press be encouraged to undertake a series of seminars similar to the inaugural one held in Melbourne last July. Discussions are in hand to provide another next March in Sydney immediately following the AWA's Ozwater Exhibition which tentatively would be March 8.

15. General Business

The educational CD was discussed and it was generally agreed that the majority of key educational institutions were not interested in utilising it possibly because there was no ownership of it from them.

The development and publication onto the ASTT website of the guidelines and standards was also discussed. Lance Horlyck indicated that he knew a Sydney student that may be able to assist.

Stewart Brown raised his concerns about the ASTT managing the pricing of next Sydney event. His main concern was that events are now becoming expensive and getting support from industry will decline if prices are not controlled at a realistic level.

Stewart also mentioned that the ASTT might like to consider merging with other organisations like AWA and the Institute of Engineers.

Menno Henneveld responded by stating that every event is different and that conference organisers should consider those synergies if they can be beneficial to both parties. Brisbane No-Dig has combined in part with ITA.

16. Next Meeting

The next meeting will be held at a time and venue to be determined in 2007.

Minutes compiled by:

Jeff Pace

Federal Secretary

December 10, 2006
