



Here we are again....

This newsletter is now our 3rd production and at this stage it still provides the best way of communicating information to our members. We say "*at this stage*" because one of the items currently under development is a QISD web site. We are hopeful that this site will be up and running within the next month or so. This should then allow information to be posted regularly and as it happens, which should keep all members fully abreast of current happenings when they occur. Stay tuned.....

QISD Strategic Business Plan....

Since December the committee has been active in developing a strategic business plan for the future. As mentioned in our last newsletter there is a long way to travel in addressing all the issues affecting steel detailers of today however we are here for the long haul and Rome was not built in a day. The committee is conscious that we need to have structure in addressing these issues now and in the future, because without structure there is ultimately chaos.

The committee recognized very early in the piece that for the Institute to be achieving its aims & objectives it will take a lot more time and effort than the committee itself could possibly provide. To maximize both of these valuable commodities the committee has developed a flow chart where

the Institute's various aims and objectives have been grouped into one of six task groups.

Each task group will then have a committee member assigned as a group leader who will be responsible for coordinating the various tasks within that group. It is anticipated that each group leader can then seek assistance outside the committee body to give the task group greater dynamics for addressing the various tasks

We are hopeful that those members who wish to be involved and active in helping the Institute work towards its goals will now have a chance to do so through this mechanism. This not only provides avenues for members to be actively involved but it should also allow the Institute to focus on more than one issue at a time.

See the attached flow chart at the back of newsletter for the task groups developed as well as the various group leaders assigned to each group.

QISD / IEAust Presentation....

The QISD has secured an opportunity to perform a presentation to the Brisbane Engineering fraternity. In conjunction with the Institute of Engineers Australia Structures branch, the QISD will do a technical presentation on various issues from the perspective of a shop detailer. This is the first event the QISD has organised to present to other members of the construction industry the issues facing detailers today. It will be the first step of many, in taking the detailer's case to the engineering industry with the aim of providing an increased awareness of what adequate design documentation means to a shop detailer. This has been one of the major focus points for the QISD and will remain to be so as we strive to tackle the association's aims and objectives on behalf of all Steel Detailers.

The presentation is scheduled to be held on July 15 in Brisbane and has been secured by John Gardner of the AISC who is also on the QISD committee. John's profile within the engineering and construction industry as the AISC state manager has been invaluable in raising the level of awareness within the industry of the QISD. This is a fine example of how the QISD and the AISC are able to work together to the benefit of the steel industry as a whole.

The event will focus on how the QISD can assist in solving the issues that face steel detailers today. There are many possible avenues to take, and it would be easy to spend days presenting them but our time is limited so our presentation must be focused and precise. The focus for this presentation will be

Cont'd Over.....



QISD / IEAust Presentation Cont....

concentrated on the educational aspect of what our profession is about and what we can do to assist others in their roles in producing efficient design documentation adequate for detailers.

The QISD management committee has been busy working on the presentation and would like to call on its members to put forward any ideas they may have that may be suitable. Remember, this is your Institute, so get involved and have a say. The committee is only here to present the views and wishes of the QISD's members. Any ideas can be emailed to the QISD at qisd@powerup.com.au, or alternatively you can call Dave Stansfield on (07) 5546 7441 or fax any ideas to (07) 5546 7881.

Company Member Profiles....

In the new QISD web site we would like to have a "Company Profile" section listing of all company members. In this section we plan to show a matrix similar to the AISC matrix of fabricators. The matrix could then be updated annually with changes.

Items to be included:

- 1) *A brief history*
- 2) *number of detailers/checkers*
- 3) *types of experience (commercial, industrial, mining/process, tanks)*
- 4) *software (if any)*
- 5) *tonnes per year detailed*
- 6) *other types of related drafting (conc. panels, metal work, duct work, etc)*

If you are a company member and would like to list your profile on the QISD new web site then could you please forward your relevant details to the QISD ASAP.

Membership.....

The response thus far has been very encouraging and it gives the committee the required incentive needed to stay focused on our aims and objectives.

The QISD encourages all detailers to become members, as without members the Institute can not attempt to address the issues facing our industry.

AISC Awards Night....

The annual AISC awards night this year will be held at the Sheraton Hotel on Friday, 16th of August. This year the QISD has been invited to provide a representative on the judging panel. For those who have not attended one of these nights in the past it is a great way of networking as well as being quite enjoyable. For further information on costs etc please contact John Gardner at the AISC (07) 3853 5320

Representative on AISC Committee....

Since our last newsletter, QISD secretary Clayton Roxborough, has been appointed to the AISC Qld committee. We congratulate Clayton on his appointment and we know that he will prove a valuable asset to this committee. Clayton's appointment goes a long way in helping the QISD in its endeavors of forming relationships with other organizations in the construction industry.

On this note the QISD committee recognizes and appreciates sincerely the help and assistance the AISC (especially John Gardner) has provided in the early stages of our existence. We are hopeful this association will continue and that the QISD can also play its part in maintaining and progressing the steel industry in the future.

CRC Construction Innovation....

The QISD has recently been invited, through the AISC, to attend a meeting to discuss the possibility of research into contract development methods employed by the Australian building industry. We believe this is a perfect opportunity to firstly raise awareness of the QISD and secondly to discuss the role of the steel detailer in today's environment and how the project might be advantaged by giving the detailer greater input. Stay tuned for further developments on this matter.....



AISC Standard Connection....

We have recently been provided with some examples of shop detail drawings conforming to AISC standard connections however when the drawings were returned from approval these connections were marked as being rejected. The final result after various amounts of correspondence etc was in the positive however it did create additional costs that should not have occurred in the first place.

We would like to here from any of our members who may have experienced similar problems of late. If we get an indication that this sort of problem is wide spread we can raise the matter with a relevant organization (IEAust or AISC) so that they can advise and remind their members of the AISC standard connections and their designed intentions.

The QISD is not here to jump on every little non-conformance when it comes to these sorts of matters. However, where it is found that problems like these are on the increase or of a severe nature then it can provide a vehicle to raise the matter though the correct channels and work with others for the betterment of our industry.

Technical Session....

The AISC recently presented a technical session on "Welding in Steel Fabrication". The QISD strongly encourages its members, where possible, to attend these types of presentations because it is at this level that we can promote ourselves to others within the construction industry.

While the presentation was primarily centered around the design process several important facts were identified that we feel are worth mentioning to our members.

Welding is still very much a manual process and therefore is very labour intensive. Consequently significant cost savings can be achieved if this process is kept to a minimum. It is well recognized that the standard of workmanship in Australia is of a very high standard however if we, as an industry, are to remain competitive worldwide then we need to be conscious of any thing that can help increase efficiencies. If we do not, then more projects will ultimately be engineered, detailed and fabricated off shore.....

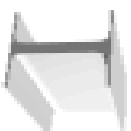
The general consensus raised was that all parties need to work together (Design, Detailing & Fabrication) as they all have extensive knowledge and experience in their own fields that should be put to greater use while a project is in the design stage.

Some points raised in the presentation:

- Review the standard practice of stating CFW UNO. In most case welding all round is not always required to achieve design load and therefore this practice creates additional costs in fabrication.
- The difference in costs between fillet welds and butt welds are quite substantial so be sure there is a real need before using butt welds.
 - The preference for welding is :
 - 1. Fillet welds for first preference followed by
 - 2. Partial Butt welds.

- 3. Complete Butt welds.
- Why butt welds are more costly than fillet welds
 - Preparation is required
 - Set up is more difficult
 - Access into the vee can be difficult and penetration problems can occur.
- If the preferred weld is a fillet weld with a large throat width that requires many passes ,then semi-automatic processes are more cost affective than manual arc welding, The choice of welding symbol is affected by the choice of welding process.
- Designer to fully appreciate the geometry of a joint to ensure weld access can be obtained. Provide adequate access as this will help productivity which will ensure the appropriate quality of weld can be made.
- The Choice of Weld Category is important as this affects lower production costs.
- Minimize welded connections where possible. Look at bolted type connections to minimize welding. eg Bolted angles
- Look for alternative options when designing complex type joint arrangements instead of numerous gusset plates coming together at one point. A simple design with the fewest number of pieces is the most economic and often results in a better product.
- The most cost effective weld is the smallest weld that provides the required strength.
- Be aware of how over welding creates distortion problems. Try to use stitch welds where possible to help with distortion.

As a detailer we should be aware of all these points and where possible discuss with the fabricator & designer any options that may create efficiencies. In the end you should get a better job.



QISD
Task Groups

