



Editorial

Dear readers,

In this September 2013 issue of the Newsletter I am reporting on the 5th EADIPS®/FGR® Information Day. Technical projects covered are the installation of ductile iron pipes in the area of a lock and the construction of a new sewage pipe on wooden piles. There is a further report which looks at how the City of Vienna is evaluating the condition of its piping network.

Have an enjoyable and stimulating read.

Sincerely yours,

Raimund Moisa



Frost-resistant drinking water pipeline for the new lock bridge on the Müritz-Elde canal in Neustadt/Glewe

♦ The new B 191 road bridge over the lock canal has been built since summer 2012. For the drinking water pipeline, the Ludwigslust Association has decided to use pre-insulated (WKG) DN 250 ductile iron pipes with BLS® thrust resistance so that the drinking water does not freeze during winter stagnation. The heat insulation layer is protected with a robust zinc-coated steel jacket because the pipeline is freely suspended under the bridge. The pre-insulated iron pipe was installed behind a concrete apron wall without disrupting the shipping traffic in the lock. This was assisted by a framework construction, whereby the pipes could be set down on the platform and then rolled under the apron wall. Despite the very narrow space available, the BLS® thrust-resistant line was able to be installed successfully. For the rising sections with 22° BLS® bends, new weld beads were welded onto the cut ends so that the forces occurring are fully taken up by the thrust-resistant elements and not by the pipe supports. This construction project demonstrates one of the many areas of use of ductile iron pipe systems in above-ground pipe construction.

5. EADIPS®/FGR® Information Day

♦ On 23.07.2013, EADIPS®/FGR® organised its 5th Information Day in Frankfurt am Main. This annual information event gives the Association an opportunity to offer its members an overview of the work produced in the first half of the year.

For 2013 the most important items to mention are: presentations by professional associations and universities, exhibition and trade fair activ-

ities and also publications in trade journals. The publication of the monthly Newsletter, the updating of the E-Book and the issuing of EADIPS®/FGR® Annual Journal No. 47 were and are important tasks for EADIPS®/FGR®. In addition, involvement in national and European standards committees is one of the important functions of EADIPS®/FGR®. The board and directors of EADIPS®/FGR® welcomed the

companies

- ERHARD GmbH & Co. KG (full member) from Heidenheim, and
 - Wendel GmbH (sponsoring member) from Dillenburg
- as new members of the European association for the cast iron pipe industry.

Ductile sewage pipeline on wooden piles



◆ In the Vorarlberg district of Hard am Bodensee the development of a construction area has necessitated the installation of a new sewage pipeline. The unfavourable subsoil conditions consisting of clay, fen and peat determined the choice of pipe material. Because of the flatness of the land the pipeline was able to be laid in nominal diameters DN 150,

DN 200, DN 250 and DN 300 with only a minimal gradient of around just 2 ‰. With subsoil which is highly susceptible to settlement, the line had to be laid on piles in order for its hydraulic function to remain guaranteed. However, if movement were to occur as a result of subsidence, it would be able to be fully taken up in the articulated design of the flexible iron

pipe system connections. Corrosion protection is ensured for the vonRollecopur ductile iron pipes for sewage pipelines by means of an integral application of polyurethane (PUR) coating, internally to EN 15655 and externally to EN 15189; in accordance with EN 598, these are full protection pipes with reinforced coating. In each case the 6 m long ductile iron pipes need a pile support with a prefabricated concrete saddle directly at the point of the socket. All those involved in the construction were impressed at how simple, time-saving and hence cost-effective the work of assembling the ecopur sewage pipes with hydrotight push-in joints actually was.

Evaluation of the condition of the piping network in Vienna with non-damage-based data

◆ For a long time now, pipe renewal strategies have mainly been based on damage rates.

60% of the piping network in Vienna consists of ductile iron pipes. Over the course of time, three different types of coating have been used here as corrosion protection systems: bitumen, zinc/bitumen and zinc/polyurethane.

to condition

- OK – no striking features,
- slightly corroded,
- corroded or
- seriously corroded.

In 2008, Wiener Wasser and TRM, Tiroler Rohre GmbH, with the support of the technical universities of Graz and Vienna, jointly considered how one could collect systematic data on the condition of the piping network using methods other than damage statistics.

Since then, more than 800 records have been collected, registered in a data base and statistically evaluated. This data allows essential knowledge to be obtained by the network operators for their renewal strategy. In addition, different generations of ductile iron pipe can be investigated in terms of the efficacy of their corrosion protection systems and thus important information can be obtained for the further development of corrosion protection systems. There will be an extensive report on condition evaluation in EADIPS®/FGR® Annual Journal No. 48.

At the beginning of 2009 the “Condition evaluation” project was put into practice. Each time a pipe is exposed (e.g. when installing domestic service pipelines) the condition of the pipes is assessed and documented according to a prescribed formula. The employee classifies the pipe according

Dates for your diary

19–21 September 2013

BWK Conference,
Stralsund

23–24 September 2013

DWA Conference 2013,
Berlin

30 September–01 October 2013

wat 2013,
Nürnberg

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