

# NEWS

## DUCTILE IRON PIPE SYSTEM

Information from the European Association for Ductile Iron Pipe Systems · EADIPS®



### Editorial

Dear readers,  
in this July/August issue of the Newsletter you can read my report on the presence of the FGR®/EADIPS® at the 121<sup>st</sup> Annual Conference of the ÖVGW (Austrian Association for Gas and Water) in Vienna, where the aim was to make a European audience better acquainted with the FGR®/EADIPS®.

I also tell you about some applications of ductile iron pipe systems, they are hydrant pipelines, pipelines for fire-extinguishing water and the rehabilitation of drinking water pipelines by pipe replacement.  
Have an enjoyable and stimulating read,

Sincerely yours,

Raimund Moisa



### The FGR®/EADIPS®'s presence in Vienna

The FGR®/EADIPS® were represented by its managing director Dipl.-Ing. Raimund Moisa and the Austrian member of the Technical Advisory Board Dipl.-Ing. Ewald Titze at this year's annual conference of the ÖVGW (Austrian Association for Gas and Water) in Vienna on 25/26 May 2011 on a stand which it shared with the DUKTUS, EWT-Diehl, HAWLE and KRAMMER-Armaturen companies.

◆ One of the papers delivered was a joint paper given by the FGR®/EADIPS® on the future of ductile iron and steel pipes. Prepared by Dr. Jürgen Rammelsberg and read by Herr Ewald Titze, the paper met with an enthusiastic response from an interested trade audience. The paper dealt with the developments in, and future strategies for metallic materials in the field of water supply. The trade show accompanying the ÖVGW's 121<sup>st</sup> annual conference was extremely well attended. This was true above all for the shared stand on which DUKTUS and the FGR®/EADIPS® were present. Herr Moisa took this as an opportunity firstly to make the FGR®/EADIPS® known to people outside of the Federal Republic of Germany and secondly to make some new contacts with well-known figures in the field of water supply in Europe and also to revive some old ones.

### Replacement of a DN 100 drinking water pipeline

The supply utility Wasserbeschaffungsverband Rheingau-Taunus is replacing a 1,100 m length of the drinking water pipeline going from Hohenstein-Breithardt to Burg Hohenstein. This is the 3<sup>rd</sup> section of the work on a pipeline of a total length of 4,000 m which is being replaced in stages.

◆ Because of the high operating pressure of 22 bars, the utility decided to install ductile iron pipes. The pipeline runs through forest and meadow land and for this reason pipes

with a cement mortar coating were used. The pipeline, of DN 100 ductile iron pipes, was laid with restrained joints because the aim was to do without concrete thrust blocks. The

sealing and restraining components used were TYTON SIT PLUS® gasket rings. Installation began on 16 May 2011. The mandatory pressure testing took place early in June 2011. Thank to the easy and quick way in which ductile iron pipe systems can be installed, the installation work was due to be completed by the end of June.



## Hydrant pipeline for the Lungern Tunnel-Pipeline for fire-extinguishing water for the Giswil Tunnel

The bypass for the village of Lungern in the Swiss canton of Obwalden is some 4.25 km long. The main structure on it is the 3.57 km long Lungern Tunnel carrying two-way traffic. The junctions with the bypass are designed so that it will be possible not only for the bypasses for the villages of Giswil and Lungern to be merged at a later date into one continuous new road, but also for a connection to be made to the A 8 national highway at Haslital through the approximately 3.5 km long Brünig-Scheitel Tunnel.

◆ As part of the “**Lungern Tunnel**” project a hydrant pipeline is being installed in the tunnel verge on the uphill side of the tunnel to give assured fire protection. The pipes being used are vonRoll-*ducpur* DN 200 K 9 ductile iron pipes with a minimum wall thickness of 4.7 mm, a polyurethane lining to EN 15655 and a zinc/bitumen coating. Thanks to the flexibility of the

vonRoll-*ecosys* push-in joint system, the ductile iron pipes are easy and very quick to connect. The Lungern bypass is due to be opened in 2012. Ductile cast iron was also selected as a material for the pipeline for fire-extinguishing water on the “**Giswil-Nord**” project. The pipes installed

were DN 150 vonRoll-*copur* fully protected pipes to EN 545 with a polyurethane coating and a polyurethane lining. The overall length of the fully protected pipeline is 1.02 km, of which 600 m is buried and 400 m is installed in the Zollhaus Tunnel.

## Drinking water pipeline – Elster Culvert Döllnitz construction

The village of Döllnitz lies to the south-east of Halle an der Saale in Saxony-Anhalt, in the Elster-Luppe-Aue landscape protection area and bird sanctuary. The Hallesche Wasser und Stadtwirtschaft GmbH supply company supplies the town of Merseburg with drinking water from Döllnitz. To provide Merseburg with a secure supply of drinking water, the old steel and asbestos-cement pipelines have been replaced by new DN 500 ductile iron pipelines of wall-thickness class K 9, DP = 10 bars.

could be used in the protection area. The joints between the ductile iron pipes were protected from damage by shrinkable sleeves and sheet-metal cones. The drilling and pulling-in machine was designed for a minimum tractive force of 750 kN. The pipes were connected up and pulled in one by one on a connecting ramp inclined at an angle of entry of 11°, using an installation pit measuring 11 m in length. The drilled bore was upsized to 900 mm. Having been connected up and pulled in, the new pipeline was connected to the existing system with BLS® ductile iron fittings.

### DATES FOR YOUR DIARY

#### 22–24 September 2011

26<sup>th</sup> Federal Congress of the BWK (Association of Water Management, Waste Management and Land Improvement Engineers), Wernigerode, Harz district

#### 26–27 September 2011

DWA (German Association for Water, Wastewater and Waste) 2011 Federal Conference, Berlin

#### 17–18 October 2011

rbv/FGR®/EADIPS® 2011 Ductile Iron Pipes Seminar, Berlin

◆ 85 m of DN 400/500 pipes with restrained BLS® push-in joints and a cement-mortar coating (ZM-U) was installed in open trenches.

Another 300 m was pulled in by the economical trenchless horizontal directional drilling (HDD) technique. The HDD technique is an environmentally friendly installation technique and that was why it



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