



Editorial

Dear readers,

In this October 2014 issue of the Newsletter I am reporting on a partnership meeting of the DWA and EADIPS®/FGR® on the premises of EADIPS®/FGR® member company Duktus Rohrsysteme Wetzlar GmbH in Wetzlar.

There are also reports on projects for replacing water pipelines with ductile iron pipes in Rheinhessen, Vienna and Lucerne.

Have an enjoyable and stimulating read

Sincerely yours,



Raimund Moisa



DWA visits EADIPS®/FGR® member Duktus Rohrsysteme Wetzlar GmbH

◆ On 1st October 2014 EADIPS®/FGR® and member company Duktus Rohrsysteme Wetzlar GmbH welcomed a delegation from the DWA, the German association for water, wastewater and waste, for a works visit. The DWA delegation headed by Bauass. Dipl.-Ing. J. Lohaus, Managing Director with the ladies and gentlemen of the research and development, press and public relations units as well as the journals and periodicals department, wanted to take advantage of their works visit to find out about ductile cast iron as a material and the application of ductile iron pipe systems in the water industry. In the course of their tour around the factory they experienced the different processing stages in the production of a ductile iron pipe. The bursting test with a section of DN 100 pipe in the testing department clearly demonstrated that only pressures of more than 250 bars can bring a DN 100 pipe to bursting point.

The presentations on “Ductile iron pipes create value” and “Secure in the future – ductile iron pipes – the use of innovative installation processes” were an opportunity for many of the visitors’ questions to be answered. EADIPS®/FGR® and the Duktus company thanked the DWA for coming. Both associations, the DWA and EADIPS®/FGR®, will continue to enjoy their collaborative partnership.

Construction of the new “North branch” of the transport line in Osthofen

◆ A grey cast iron pipeline dating back to the year 1968 and belonging to the Seebach area utility association in Osthofen had been suffering repeated pipe bursts; in addition the delivery needed to be increased. Therefore the existing DN 300 line was replaced by a DN 400 C 64 (K 9) line. The transport line, which is to

be renovated in sections, begins at the main pumping station and ends at the Bechtheim West elevated tank. The first 520 m long construction stage was completed last year and this is now being followed by the second stage, a 480 m long section in the municipality. DN 400 ductile iron pipes with cement mortar coating

and TYTON SIT PLUS® push-in joints are being installed. Along the entire distance of around 8 km, the so-called “North branch”, nine villages will be supplied with water. The line will operate at a pressure of 12 bars. The renewal of a further section is planned.



Ductile iron pipes as an integral element of the Vienna "Gürtel ring road offensive"

◆ The "Gürtel ring road offensive" is fully underway in Vienna. This is an extensive renovation project to replace the water pipelines in the inner and outer Gürtel. This involves replacing the more than 100 year old pipelines completely. Four construction stages in the 8th, 9th, 18th and 19th districts were already completed in 2012 and 2013. In 2014 the water pipes in the 16th and 17th districts are being renewed. In the Am Hernalser and Lerchenfelder sector of the Gürtel, DN 700, PN 25 ductile iron pipes with BLS® restrained push-in joints were used over a length of around 700 m.

They should guarantee the problem-free supply of water for the next 100 years.

With a traffic volume of around 35,000 vehicles a day in each direction, enormous challenges were faced by all the companies, motorists and residents involved during the implementation of this project.

The City of Vienna relies on cast iron as its piping material. For Vienna Water, operational reliability and durability are given the highest priority. In the end, there is scarcely a single comparable piping material which has proven itself over so many decades.



Cast iron water supply lines which are over 100 years old are still in operation today. The new water pipeline will also be providing the 136,000 consumers with first-class drinking water in the future.

Dates for your diary

03 December 2014

POLLUTEC 2014

Lyon

10 am, EADIPS®/FGR® presentation
"Ductile cast iron creates value" /
„La fonte ductile – Créatrice de valeur ajoutée"

16 January 2015

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Iron Pipe Systems · EADIPS®/
Fachgemeinschaft Guss-Rohrsysteme
(FGR®) e.V.

Im Leuschnerpark 4
64347 Griesheim/Germany
Phone: +49 (0)61 55/60 52 25
Telefax: +49 (0)61 55/60 52 26
E-mail: info@eadips.org
www.eadips.org

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Transport line renovation in Guberwald near Lucerne

◆ The first drinking water supply structure in the city of Lucerne was an approximately 12.5 km long concrete pipeline with a nominal size of DN 300 to DN 500 constructed in the years 1874–1875. With a gradient of an average 1 % it transports spring water to consumers from the Eigenthal, which is about 10 km South-West of the city. Since the 1970's sections of it have been replaced because of damage involving transverse cracks and joint misalignment.

In Summer of this year in Guberwald, a further 400 m long section of the old DN 450 concrete pipes was replaced with new DN 500 ductile iron pipes. Because of the numerous changes of direction in the terrain and to protect against the risk of damage to the new drinking water transport line in case of any downward movement, vonRoll ECOPUR ROCK

DN 500 full-protection pipes were used with flexible vonRoll HYDROTIGHT push-in joints locked against longitudinal forces.

The vonRoll ROCK protective coating applied on site meant that even coarser-grained material (grain size above 0/63 mm) could be incorporated into the pipeline zone. So the material excavated from the terrain, consisting partly of weathered marl and sandstone ridges, could be used again for backfilling the trenches.

Despite poor weather conditions, the easy assembly of the push-in joints using the vonRoll pipe-laying tool enabled the work to be completed quickly, even though the limited working space demanded complex construction methods.

