Mar. 2010 issue ◆ Vol. 4

# NEWS
# DUCTILE IRON PIPE SYSTEM

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

## Editorial

Dear readers,
The third issue this year describes a highly diversified range of applications of ductile iron pipe systems: there were four papers alone on "Ductile iron pipe systems" in the papers read at this year's Oldenburg Pipeline Forum. The current pipeline projects we describe are the replacement of a drinking water main in preparation for the 2011 German National Garden Show in Koblenz and the installation of a connecting sewer. An account of quality assurance for Austrian pipeline laying indicates an exemplary route to a sustainable process to be followed by businesses when creating public infrastructure.
I hope you will find the issue a stimulating read.
Sincerely yours,

Raimund Moisa

## The German National Garden Show in Koblenz

**In 2011, the German National Garden Show is going to be held in Koblenz in Rhineland-Palatinate. A great deal of building and other installation work has to be done in preparation for it.
As part of this work the "Neustadt" Strasse is being re-designed. One of the entrances to the Show is going to be sited there.**

◆ As the local supply company, Energieversorgung Mittelrhein GmbH decided in advance to replace a 90 or so year old DN 450 grey cast iron drinking water transporting pipeline with a new DN 500 ductile iron pipeline in the area between Mainzer Strasse and Deinhardplatz. 600 m of DN 500 ductile iron pipes were supplied. The push-in joints selected were the non-restrained TYTON® push-in joint and the friction-locked BRS® push-in joint. The ductile iron pipeline was installed in 2009 in a single trench together with a DN 400 steel pipeline for gas.
Almost at the same time, DN 500 ductile iron pipes with the BRS® push-in joint were also being installed close by on Stresemannstrasse. This project called for the existing DN 500 transporting pipeline to be re-laid because of tree-planting work.
The installation operations described have now been completed and the pipelines are partly back in operation.

## Laying of a new connecting sewer in Rauenberg

**The municipality of Freudenberg am Main was the client for a 920 m long connecting sewer running from the Rauenberg sewage treatment plant to the Wessental-Boxtal intercepting sewer. This allows the villages of Rauenberg, Wessenthal and Ebenheid to be connected to the expanded Monfeld-Boxtal community sewage treatment plant.**

◆ The invitation to tender was for around 800 m of DN 200 sewer pipes of polypropylene. Only 130 m of DN 200 ductile iron pipes were planned. The pipe manufacturer was able to convince the client and the planning company to use ductile iron pipes for the whole of the connecting sewer. Ductile iron sewer pipes to DIN EN 598 with the TYTON® push-in joint and with a zinc coat and an epoxy top coating were used to lay the sewer. The laying company was very happy with the quick and economical way in which the ductile iron pipes could be installed.

## 2010 Oldenburg Pipeline Forum

**The 2010 Oldenburg Pipeline Forum was the first high spot in a long series of events concerned with pipeline construction and installation and particularly with the ductile iron pipe system. This time there were even four papers in the set under the heading of "Ductile iron pipe systems".**

◆ **W. Sommer** (Kling Consult) reported on the laying of a 9,000 m long trench-laid DN 400, PN 10 water pipeline for the Ruhrkohle AG (RAG) company as a parallel pipeline. This became necessary in the course of the renaturalisation of the river Emscher.
In the second paper **R. Zielonka** (Niederrheinische Versorgung und Verkehr AG) dealt with the laying of a 5.8 km long transporting pipeline for untreated water in DN 500 ductile iron pipes.
The other two papers were concerned with trenchless replacement techniques.
**A. Scholz** (NRM Netzdienste Rhein-Main GmbH) gave a paper on the relining without any problems of an old DN 500 grey cast iron pipeline for drinking water on the Alleenring ring-road in inner-city Frankfurt am Main using DN 300 ductile iron pipes. Equally free of problems was the relining of a DN 1100 waste-water pressure pipeline in Berlin-Steglitz which was reported on by **F. Schaffarczyk** (J. Pfaffinger Bauunternehmen GmbH).
Following the set of papers, the chairman of the board of the Fachgemeinschaft Guss-Rohrsysteme (FGR) e.V. held a **press conference** at which he told the trade press how the FGR/EADIPS (European Association for Ductile Iron Pipe Systems) had been repositioned as a European association.

## Guideline for quality assurance measures

**The useful life of newly laid pipeline systems becomes increasingly important particularly in tough economic times. It depends firstly on the pipes used and the quality assurance accompanying their production and secondly on the quality of the installation work and of the accompanying underground construction work.**

◆ Although in-house and outside monitoring of pipe production had already become obligatory in Austria, the installing work had, to date, been done without any outside monitoring.
In 2005, the "ARGE Österreichische Güteanforderungen" [Austrian Quality Requirements Association] began drafting a quality guideline laying down binding quality assurance measures for all pipe products and fittings to ensure the quality of installation work in this regard. In 2009 the laying industry too was included when the guideline was extended to cover on-site engineering and laying work. Only pipe equipment which meets the very highest demands – such as ductile iron pipe systems – combined with quality assured and faultless installation work will guarantee the customer a useful life which is appreciably longer than the life of 50 years which is assumed for costing purposes: in the case of ductile iron pipe systems, an assured confirmation of more than 80 years, and in most cases of more than 100 years, can be given. The Austrian quality requirements can be called up on the internet from the following websites:

- ÖVGW [Austrian Association for Gas and Water] www.ovgw.at
- GRIS [Quality Assurance Association for Pipes for Urban Water] www.gris.at
- GWT [Quality Association for Water Technology] www.gwt.so.at


### DATES FOR YOUR DIARY

**14–16 April 2010**
15th German Dam Symposium, Aachen
**18–20 April 2010**
FIHR/FGR Conference for College & University Teachers, Grossräschen
**4–5 May 2010** 7th Sewer-Laying Conference, joint event held by the DWA [German Association for Water, Wastewater a. Waste], Celle

**Imprint:**

Issued by/copyright: Fachgemeinschaft Guss-Rohrsysteme (FGR) e. V. · European Association for Ductile Iron Pipe Systems · EADIPS
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Press date: 19 May 2010
Production: schneidermedia.de