



# Seminar / Expert Meeting

## Operation of Pipeline Systems Security Systems and Life-Cycle Extension Strategies

5-7 October 2009

Maritim Hotel Würzburg, Germany



Euro Institute for Information and  
Technology Transfer in Environmental Protection

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# Introduction

According to statistics, approximately 25,000 km of new pipelines are laid worldwide every year. About 200,000 km pipelines, mostly gas-pipelines, are expected to be built in the following five years. The costs for that will be around € 400 billion. The economic success of pipeline projects is highly dependent on the operational availability and life expectancy of the whole pipeline system.

In Central Europe there are gas and oil pipelines in usage with some of them being older than 80 years. This is possible due to the fact that ordinances, technical regulations, safety devices, monitoring, maintenance and management systems are constantly checked and upgraded.

With input from the market-leading companies and professional associations, the expert meeting „Operation of Pipeline Systems - Security Systems and Life-Cycle Extension Strategies” gives a comprehensive insight into the state of technology. Top-level experts from the German companies

- Siemens AG, München
- E.ON Ruhrgas AG, Essen
- VNG - Verbundnetz Gas AG, Leipzig
- DVGW - German Technical and Scientific Association for Gas and Water

give an account of their experiences. The participants will benefit from practical examples, detailed descriptions and technically well-founded discussions on how to increase efficiency.

I wish all participants a successful participation and some new insights into interesting knowledge for their daily work.

Dr. Klaus Ritter  
President of EITEP

## Information

### Target Group

The seminar is recommended for all personnel involved in the operation, maintenance and automation of pipeline systems.

- Engineering staff and executives from pipeline operators and service companies.
- Pipeline equipment manufacturers and suppliers.
- Pipeline engineering and construction contractors.

### Date

5-7 October 2009

### Language

English

### Seminar Contact

Mr. Dennis Fandrich  
Tel. +49 511 90992-22  
fandrich@eitep.de

### Pricing

1,450.00 Euro + VAT

### Included Services

- Catering (3 lunch and 2 dinner invitations, coffee breaks)
- Seminar materials
- Local transfer
- Certificate of participation

### Event Venue and Accommodation

Maritim Hotel Würzburg  
Pleichertorstrasse 5  
97070 Würzburg  
Germany  
Tel. +49 (0) 931 3053-0  
Fax +49 (0) 931 3053-900  
E-mail: info.wur@maritim.de

Special rate: single room 107 € per night (incl. breakfast). Only a limited number of rooms is available at this rate up to 4 weeks before the event.

### Registration Deadline

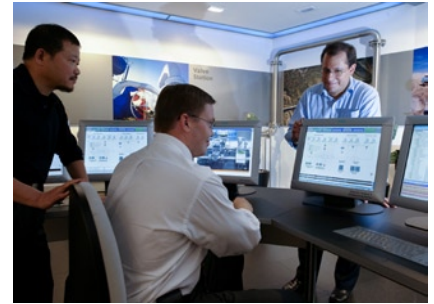
21 September 2009

### Entry Conditions

Registration is not considered confirmed until payment is received in full. Registrations can be cancelled (in writing only) free of charge up to 4 weeks before the event. In case of later cancellation or failure to attend the entire attendance fee will be payable. The registered delegate may of course send a substitute at no additional cost. The organisers reserve the right to amend the program of events if necessary.

(if you are interested in any other individual arrangements or if you need assistance, please contact us)

# Technical Program



5 October 2009  
10:00 - 18:00

The first day provides an overview on all relevant components of a state-of-the-art pipeline system and gives an insight into the technical details of each part. The day ends with a site visit at the transfer station and CCGT plant in Würzburg where the participants get an introduction into practical aspects of daily work.

6 October 2009  
9:00 - 18:00

The aim of the second day is to give the participants a comprehensive overview on latest pipeline integrity technologies and management procedures. The seminar ends with a visit of the compressor station at Rimpar where the participants receive information on its new automation system.

7 October 2009  
9:00 - 16:00

The third day introduces to new technologies and latest IT applications for the automation of pipeline systems. The main focus lies on flexible modular software architectures and their interfaceability. During their stay at the Siemens Pipeline Demonstration Center the participants simulate a real-time pipeline system and learn how to react on internal and external interferences.

## Introduction

- Pipeline-based Transportation of Oil, Gas and other Media
- Worldwide Pipeline Outlook
- Regulation Framework

## Functional and Technical Description

- Pipeline Design
- Compressor / Booster, Valve, Metering, Blending, and Pressure Reduction Stations
- Gas Storages and Gas Storage Facilities
- Other Technical Equipment
- Environmental Impact
- Special Aspects of Offshore Pipeline Systems
- Feeding-in of Bio Gas

## Pipeline Integrity

- Safety Philosophy
- Pipeline Pigging / Inspection and Leak Detection
- Safety Devices, Monitoring
- Maintenance Patrolling
- Pipeline Protection / Corrosion Control
- PIMS – Pipeline Integrity Management Systems
- Troubleshooting and Failure Investigation
- Repair Welding
- Transport of Hydrogen, Nitrogen and other Products

## Operational Improvements / Security Systems / System Automation

- IT and Expert Systems
- SCADA Systems
- Measurement and Accounting
- Risk Management
- Third-party Impact / Emergency Shut-down Procedures
- Automation of Pipeline Systems
- Software Architecture

## Discussion of Case Studies and Practical Examples

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## Site Visit to the Transfer Station and CCGT Plant, Würzburg

- Discussions on Practical Aspects in Daily Work

Dinner at the Castle of Würzburg

## Site Visit to the Compressor Station Rimpar / MEGAL Pipeline

- Discussions on Practical Aspects in Daily Work

Dinner at a Vineyard

## Siemens Pipeline Demonstration Center, Fürth / Nürnberg

- Simulation of Pipeline Operation and Disaster Management

## Course Director



Wolfgang Eschment, VNG – Verbundnetz Gas AG, Germany

Wolfgang F. Eschment worked as a consulting engineer at Ruhrkohle Essen and changed the company to Salzgitter Ferngas GmbH in 1969. Since 1975 he was working at Deutsche Schachtbau Lingen from where he moved to BP, where he was in charge of several national and international projects. After this time he became vice president marketing at Wintershall Energy, Houston, Texas, before he became president of the Erdgasversorgungsgesellschaft mbH, Leipzig. From 1991 he was member of the board of directors for gas sales at VNG and from May 2000 till June 2007 he was member of the board of directors gas sales / technology. Since then he is working as freelancer and senior advisor for VNG. In addition to this he became honorary consul of Slovakia at the Free States of Saxony and Thuringia in 2003.

## Lecturers



Sanjeev Sinha

Director Sales,  
Pipeline Projects  
Siemens AG,  
Germany



Dr. Michael Quast

Corrosion Protec-  
tion Technique  
E.ON Ruhrgas AG,  
Germany



Dr. Michael Steiner

Director Materials/  
Integrity  
E.ON Ruhrgas AG,  
Germany

## Seminar / Expert Meeting

### Operation of Pipeline Systems - Security Systems and Life-Cycle Extension Strategies

5 - 7 October 2009

#### Registration Form

via Fax: +49 (0)511 90992-69

Company \_\_\_\_\_

Title / First Name / Last Name \_\_\_\_\_

Position \_\_\_\_\_

Address \_\_\_\_\_

Postcode / City / Country \_\_\_\_\_

Tel \_\_\_\_\_ Fax \_\_\_\_\_ E-Mail \_\_\_\_\_

Payment method for participation fee (1,450.00 Euro + VAT)

- By bank transfer after receipt of invoice  
 By credit card (  Visa  Mastercard  American Express )

Card number \_\_\_\_\_ Expires \_\_\_\_\_

Name of card holder \_\_\_\_\_ Card security code \_\_\_\_\_

Date, Signature \_\_\_\_\_

- Please reserve a single room (107 € per night):  
Reservation only possible when credit card details are mentioned above.  
Payment to be made directly at the hotel.
- No. of nights \_\_\_\_\_ Arrival \_\_\_\_\_ Departure \_\_\_\_\_