

21st DCA Annual Congress
Soil and rock in the target!

HDD further education GW 329
Again well attended!

Congress 2017 in Dordrecht
22nd Annual Congress will take place in the Netherlands

DCA
DCA
Newsletter December 2016

DCA Annual Congress 2016
DCA site visit A7



Impress

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Hermann Lübbers
President of the DCA



Dear Ladies and Gentlemen, dear members,

The year draws to a close; it is the right time to draw the balance. Everyone is looking back onto the past business year of their company, is looking back on individual occurrences of the past year – and we all usually find many positive aspects but also some things that did not run absolutely perfectly.

Just as well it was for associations like the DCA of course. Generally speaking the year was satisfactory. Look how the number of members developed, or the financial status of our association, or the number of participants at our two main events etc. – all is in good order and condition.

We, whether we are members or from the board, may be contented with what we have achieved. But I was a bad president, if I did not emphasize that there is still room for improvement! Following the proverb “Zufriedenheit ist die Feindin großer Taten“ (Contentment is the enemy of Great Action), we always have to look ahead and may not be dazzled by snap-shots.

Our annual congress in Hamburg surely can or may be called a success again. But there were also some negative aspects we will have to tackle. An example of the ideas often mentioned was the choice of lectures and lecturers. The wish was uttered to arrange a programme with more HDD specific lectures. This idea is not new, and we have been trying every year to transact it. But this requires the respective interesting projects and lecturers we normally can only find among our members. The board members will leave nothing undone to pepper the congress with such lectures. But we can only successfully transact this wish if our members develop appropriate activities and hand in their suggestions on occasion!

By the way, that request applies to all fields of the congress; suggestions for workshops or site visitations near the respective venue are always very welcome! On the other hand I do consider those issues very interesting that are subordinate and thus let us all look beyond our own nose. Inspirations and advancement often originate from sectors rather unknown to us. Please make your contributions that we all can shape our congress in the way you wish for yourself.

There are still other things on the boil, namely the association’s enduring issue “disposal of drilling fluids”. Please bear with the task group and the board that the advance rate of this issue does not progress as quickly as most of you wish, us included. On the one hand the topic is very complex, and on the other hand it is also dependent on third parties. We are on course with this issue; unfortunately not on an autobahn but on a street of subordinated category, however. As you all know we cannot make headway on such streets as we wish or should.

Look about the great world of politics ; here, too, not all tasks go off without a hitch; here, too, you often feel that those responsible are not on their way on an autobahn in view of pace and progress of a project. The DCA will perseverant keep at it and at all issues we are working on. Perseverance will finally produce some acceptable results and prevents a stalemate.

To quote Socrates:

“Stagnation is the beginning of the end!“

In this sense I send you Season’s Greetings and a Happy New Year

Yours,

Hermann Lübbers

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DCA Annual Congress - Site visit A7

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DCA Annual Congress 2016

DCA Annual Congress Hamburg
President Lübbers welcomes the participants at the
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Education 2017

Education courses take place like in the past years at Bohrmeisterschule Celle, Germany.

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31st Oldenburger Pipe Forum

DCA presented interesting HDD lectures and the meeting point "Drilling Saloon". See us in Oldenburg!

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DCA Members Meeting 2017

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22nd DCA Jahrestagung in Dordrecht

The next DCA Annual Congress will take place in the Netherlands in Dordrecht. The oldest city in the Dutch province of South Holland invites you to linger with a historical atmosphere.

Please read more about Dordrecht on

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Review 21st DCA Annual Congress 2016

Soil and Rock in the Target of HDD

This year's annual congress of the DCA in Hamburg primarily focussed on geological and geotechnical peculiarities in view of HDD measures. Topical controversial issues still are the disposal of drilling fluids and the new system of homogeneous zones.

DCA's president Hermann Lübbers prepared the almost 140 participants for the congress: "The DCA may never be vegetating as administrative machinery." It was always important to develop visions and solutions, for example in view of use and disposal of drilling fluids that were currently "boosting the costs of directional horizontal drillings in an exorbitant way". "Clients drastically reduce their tender offers for directional horizontal drillings these days. Counteraction is essential now, otherwise the technique of directional horizontal drilling will considerably lose market share", Lübbers warned.



Hermann Lübbers welcomes almost 140 participants

The lectures of the first congress day dealt firstly with network development. M. Eng. Robin Dornauf of the Bundesnetzagentur reported about the federal planning of demand, the priority of underground

cable of lines for high-voltage direct-current transmission and about planned projects in the coming years. Then Dr.-Eng. Enno Wieben of EWE Netz GmbH reported about the connection of energy and gas networks (sector connection) as "key to the energy switch" and the prospects of seasonal energy storage in gas networks. Electrifying gas compressors in particular offered quick and cost-efficient potential for sector connections.



Well filled congress room

The ensuing traditional site visitation led to autobahn A7 in Hamburg. This busy autobahn is not only being extended at the moment but will also receive several noise protections, for example in Hamburg-Schnelsen.

Geology in the focus

The second day centred on interesting HDD projects, as well as technical and particularly geological aspects.

M. Eng. Stefan Reich of HPC AG presented a project in Hamburg's emerging district HafenCity where directly on tidal Elbe a building complex is being erected. Given in-situ backfill and organic mud bottom, it was necessary that the buildings had a deep foundation on piles. This required intensive geotechnical supervision by the engineers of HPC during the planning and first construction phase. In particular the water table had to be

measured on a regular basis, and the setting properties of the mud bottoms had to be calculated. Despite ingress of water into the construction pit a safe foundation could be achieved as soon as a leak in the bank wall was sealed by means of filter load and concrete seal.

Dipl.-Ing. Günter Kruse of LMR Drilling GmbH was also especially preoccupied with the issue geology when he presented a HDD project in Northern Spain. Over a length of scarcely 700 m a steel pipe DN 800 should be laid. A foundation soil analysis showed that not only sand, gravel, clay and silt had to be expected but above all also karstic limestone that possessed violent decay and lacunae because of water currents. This caused concern that considerable loss of drilling fluids had to be expected during the pilot drilling; therefore the drill hole had to be cemented several times. Pumping of the cement suspension was carried out by a pipe open at one ending. All in all 172 tons of cement were applied in this project. When the cement plug had hardened, they could proceed with the pilot drilling without loss of drilling fluids.



Robin Dornauf, Dr. Wieben, Hermann Lübbers

The currently most controversial issue "homogeneous zones" was portrayed by Prof. Dr.-Ing. Kurt-Michael Borchert of GuD Geotechnik und Dynamik Consult GmbH; DCA's executive secretary Dietmar

Quante had explicitly pointed out to his lecture in his opening address. After the amendment of the VOB/C last year, the corresponding ATV standards replaced the former soil classes by homogeneous zones. The multitude of possible classifications of the former schedule had often brought amendments about. "Some clients tendered classes 1 to 7; thus they could not go wrong", bantered Borchert. The new homogeneous zones provided a standardised system for soil and rock description that considered special requirements of the individual crafts and described the construction soil independent from the device applied.



Prof. Borchert explains homogeneous zones

Compared to the former classes, the greater number of parameters offered more options to determine deviations during construction work, said Borchert. Reduced costs, however, were not necessarily proven by these individual parameters. Additional expenses had to be justified by the respective evidence, for example calculated digging resistance that had to be presented with the parameters from



Congress Speaker

the scope of work compared to the new parameters. "Geotechnical experts will still have to deal with changing soil conditions and probably with more differentiated evidence," predicted Borchert.



Michael Fredrich's lecture

Trendsetting Radar Technology

How to effectively detect obstacles and third-party lines in the soil during HDD drillings was the issue of Dr. Hans-Joachim Bayer of Tracto-Technik GmbH & Co KG, using the EU-funded ORFEUS project. After some development work a radar antenna could successfully be mounted to the drill head. It can explore the soil without restricting the controllability of the drill head. Using a special connector system, huge amounts of data like they are essential for the radar technology can be transmitted. Meanwhile this radar system successfully proved its worth at several test sites in Stuttgart, St. Denis near Paris and Ljubljana/Slovenia.



Dr. Bayer describes the ORFEUS project

Dr. Bayer hopes that the project will further be supported so that the system can be launched in about

two to three years. One or the other detail, however, need improvement, said Dr. Bayer, for example the automatic deactivation when lines are approached.

At the end of the event all participants benefitted from gaining new knowledge and insight into various topics from interesting lectures and intensive discussions.



Interested audience

As usual Hermann Lübbers announced the venue for the next annual congress. From the North of Germany the members are invited to the South of the Netherlands in autumn 2017. Again it is a historic harbour city, considerably smaller than Hamburg, however: it is Dordrecht.

Boris Valdix, bi Umweltbau

Site Visit Autobahn A7

Sites on One of Germany's Most Important Transport Axis

DCA visits projects of development of the A7 - Schnelsener Deckel and Langenfelder Brücke

This year's site visitation on the occasion of DCA's annual congress in Hamburg was introduced on Thursday morning at 11:40 a.m. by two interesting lectures held by the companies Via Solution and HOCHTIEF under the title "A7 of the future – transport axis of the North - Schnelsener Deckel and Langenfelder Brücke".



Discussion at Schnelsener Deckel

The transport axis A7 is the most important North-South-link of Germany, and according to the Federal Ministry of Transport and Digital Infrastructure it has reached its load limits. It is used for North-South transit traffic as well as for the traffic to and from the commercial metropolis Hamburg and the pulsating Hamburg harbour in particular. At Schnelsener Deckel, the development of this important transport axis combines the extension of the autobahn with one of Germany's largest projects of noise protection. In Schnelsen the A7 not only receives an additional lane for each way, but also new noise protection along the route. In the end the traffic will disappear under a concrete road surface of 90 cm

thickness. The tunnel is more than 30 m wide and offers enough room for the new A7 with six lanes.



Schnelsener Deckel top view

The second development project is the new construction of Langenfelder Brücke, and at the same time the extension of the A7 from six to eight lanes. The challenge is the fact that the bridge crosses several railway tracks, a pedestrians' tunnel and some streets.

In the early afternoon the time had come: around 90 participants of the annual congress, split up in two groups and equipped with safety jackets, sturdy shoes and safety helmets, entered the busses. The programme allotted that each site was approached by one group; after about 45 minutes the groups were to interchange.

Arriving on site Schnelsener Deckel, the groups were welcomed at the base of the autobahn's box-cut. A short walk followed onto a crossing temporary bridge that was erected to enable pedestrian traffic from one quarter to another. The participants could experience for example concreting on top of the



Langenfelder Brücke

cap of the part of the A7 currently attended to. Traffic had been parallel rerouted to another lane section. As soon as this cap will be completed, it is planned to reroute the traffic to the completed lane section again and then to start work on the second part.

After this site visitation of Schnelsener Deckel, the trip continued towards Langenfelder Brücke. Here the substruction of the new bridge was presented first of all. Furthermore the rather complicated demolition of the old bridge was illustrated. The visitation ended with a walk over the bridge while more details were explained concerning construction, schedule, and peculiarities of the site. After the visitation of both sites the busses returned to the hotel.



"DCA on Tour" on the bridge

All in all the visitations of Schnelsener Deckel and Langenfelder Brücke on the A7 were very interesting from a technical and logistic point of view. The board of the DCA cordially thanks the companies Hamburg Wasser, Via Solution and HOCHTIEF that they had organised these site visitations.

D. Quante, DCA

DCA's Annual Congress with Hanseatic Flair

As is tradition the congresses social programme started on Wednesday afternoon with exploring the place of venue.

At first Mr. Klein, our tour guide, accompanied the tour participants by bus to the Kontorhausviertel. Passing posh mansions located directly on river Elbe and the park Planten un Blomen, the bus ride led towards Binnenalster with Jungfernstieg and the impressive city hall to Sprinkenhof and Chile-House. With the help two other guides, Ms Schön and Mr. Lüding, the large group of participants was split into three, two of them German-speaking and one English-speaking.



City tour with Paul Klein

Hamburg's history from its beginnings until today becomes tangible in the confined spaces of the Kontorhausviertel. This was the origin of Hamburg, the so-called "Hammaburg". The construction of today's Kontorhausviertel north of the harbour started in 1912 and was intensely pushed on given the economic conditions after the First World War. The leading architects of that time, Hans and Oskar Gerson, created a style that was determined by two principles: the build-

ings are ferroconcrete skeleton constructions; their fronts are re-vetted with bricks and become more beautiful and appealing over the years. In this way one of Europe's first quarters with only offices developed. The most important buildings of the Kontorhausviertel are the Sprinkenhof and the Chile House, the latter is easily recognized by its shape of a ship.



Coffeestop at the Speicherstadt

From here the tour guides led their groups to the Speicherstadt that had developed between 1885 and 1927 as huge and at that time ultra-modern complex of storehouses to store the goods from ships temporarily. Both, Kontorhausviertel and Speicherstadt were declared UNESCO World Heritage Site in 2015. The really unique air of this quarter stems on the one hand from the commanding brick buildings, and on the other hand from the bridges that cross the so-called Fleete (town canals). The tour guides invited to a stopover at the Genusspeicher. In a historic-modern ambience the visitors can experience the culinary delights of coffee over two storeys. Attracted by the magical scent of freshly roasted and brewed coffee, the parties were drawn to the warmth of the Speicher's café where not only liquid refreshments but also delicious and hugely dimensioned slices of cake awaited them.

Well invigorated the bus took everybody to Alter Elbtunnel. When this old tunnel under the Elbe, that

is also called "St. Pauli Elbtunnel", was opened in 1911, it was a technical sensation.



Portal of the old Elbtunnel

Today it is a nostalgic and affectionately and well-tended example of Hamburg's history that could already celebrate its 100th birthday. The prominent square domed structure near St. Pauli Landungsbrücken has room for the machinery and four huge lift cages that used to transport people and cars at a depth of nearly 24 m since 1911.



Walk through the Elbtunnel

After a stretch of 426.5 m below river Elbe and through two tiled tubes of 6 m in diameter, you return to daylight in Steinwerder. After this trip into long forgotten times with many interesting impressions, the bus returned back to the hotel in Eppendorf with the participants at 6 o'clock.

A. Quante, DCA

Spouse program

Spouse program - boat trip and visit in Hamburg-Ottensen

On the next day, Thursday, the programme for the accompanying participants of the congress announced a cruise over the Fleete (canals) onboard a typical Hamburg launch, followed by a walk through Ottensen. In clouded weather and partly fresh wind, the bus first took the small group of nine to the Blue Mosque. This Iranian Shiite mosque is located in second row near the Alster shores in Uhlenhorst; it can be seen even from a distance because of its minarets and cupola. The house of prayer of the Islamisches Zentrum Hamburg e.V. (Islamic Centre of Hamburg), the Imam Ali Mosque, is a quite awesome building that was erected in 1960; it is Germany's fourth eldest mosque and therefore a listed building since 2013.



Ladies visit the blue mosque

The bus continued via St. Georg to Mönckebergstrasse, one of Hamburg's major shopping streets, up to the forecourt of the city hall. The walk along Neuer Wall and Alsterarkaden was guided again by Mr. Klein, he himself being the author of a shopping guide about Hamburg's 111 shops you must see. Consequently he presented some posh shops and boutiques. One halt was made at Ladage & Oelke, Hamburg's eldest store for clothes. Originally founded as cloth trade, it quickly developed into a

speciality store for gentlemen's clothing. Today the range of clothing was extended to ladies' and children's outerwear and shoes. The noble ambience presents fashion in tweed and duffel coats and is thus reflecting the Anglo-Hanseatic tradition often experienced in Hamburg. The walk continued towards the Hamburg stock exchange. Floor trading of the Hamburg securities market was done at the Chamber of Commerce that was seated here until the end of 2002. Today the rooms are a modern meeting point for Hamburg's representatives of the economy. Being a house within a house, the building impresses with its reflective and translucent materials that produce an interesting tie with the historic building.



Boat trip through Hamburg

The walk continued to Speicherstadt; on the way the Galerie für Schmuck of Ms Hilde Leiss was visited. In one of Hamburg's oldest office buildings the visitors are confronted with a choice of extravagant jewellery, as well as clothing and shoes by selected couturiers for people who have an eye for the extraordinary.

After all these impressions from posh shopping streets, the launch M/B Hansa III waited for its guests, ready to leave for a cruise of 1.5 hours through the town canals of Speicherstadt. Hot coffee and delicious Franzbrötchen (sweet cinnamon-flavoured pastry) were relished while the group passed the old office buildings of Speicherstadt,

enjoying the atmosphere. Then the launch headed for the harbour. In a fresh breeze the participants gazed at a giant container vessel that was being unloaded. The launch landed at the pier Docklands where the cruise ended, followed by a delicious lunch in the restaurant Au Quai around the corner.



Ladies on Tour

After this small but nice refreshment the group headed for a walk in Ottensen. In former times it was a big industrial location in the Hanseatic City, today it is a quarter of the district Altona and has turned into one of Hamburg's most attractive living quarters. Ottensen is really multifaceted; direct access to river Elbe and mansions and old beautiful buildings from the turn of the last century are combined with parks and many cultural proposals. Boutiques and fancy shops wait to be discovered, like for example the shop of the fashion designer DFM Hamburg that belongs to the couturier Dörte F. Meyer. This is her second location; the first one is a showroom with gallery appeal near the harbour. But here the cutting-table is positioned in the middle of the room, and any visitor can observe the production very closely. Limited production lines are produced here and can be admired.

Around 3:30 in the afternoon the bus carried its valuable load back to the hotel. That left enough time to relax before the evening event would start.

A.Quante, DCA

DCA celebrates at Zollenspieker Fährhaus

Thursday evening traditionally is the high-light of the social programme of any DCA congress. The organizing team had again chosen a special location for the congress participants. Two double-decker busses took the participants to Zollenspieker Fährhaus at Hamburg's southernmost corner.



Hermann Lübbers's reception

The far journey was slowed because the traffic was so dense; and the busses arrived a little late. But then the participants were immediately remunerated for the delay with delicious cocktails and snacks and this venerable listed house. It represents Hanseatic history like hardly any other historic building in Northern Germany and looks back on more than 750 years of history.



Excited participants

It had served as customs station, as ferry house at one of Hamburg's primal Elbe ferry docks, and has probably always been an inn and roadhouse. When the building was extended by a ballroom in 1863 it received its distinctive form. The

party now found their way into this very ballroom that was festively arranged. Everybody enjoyed the exquisite food, drank tasty wine and had animated conversations.



Fisher Kai and captain Tim

The dinner was accompanied by Fischer Kai's Freunden, the friends of fisherman Kai, two original Hamburg characters from Lüdemann Theater. They made sure that the evening had the suitable background music. But the high-light was the entry of Kai himself, dressed in blue dungarees and dockercap, who provided everyone who did not know anything about the North with instructions how to deal with locals and dissenters. Deftly some participants from the DCA were involved into his performance, causing the audience to cheer.



Willi Thomsen and fisher Kai

After so much Hanseatic way of life the participants returned to the hotel by busses around midnight, only to find their way into the hotel bar.

As part of the event, the award ceremony of the last golf tournament took place. Gerd Paulisch congratulated the winner of the tournament 2015 in Marseille, Marc Schnau. Furthermore, Gerd Paulisch handed over the scepter of the organizer of the traditional golfing team to his successor Johann Smit due to his departure at the TDC. The DCA thanks Gerd Paulisch for his years of work for the DCA and the HDD technic and wishes him all the best for the future.

Friday and thus the last day of the congress could be individually spent by the accompanying congress participants until lunchtime. The afternoon invited to swing the golf club at the traditional golf tournament. A small group of four participants fetched their lunch-boxes and started out to present their best skills. This year Mr. Paulisch was the winner.



Award ceremony with Marc Schnau and Gerd Paulisch

Friday and thus the last day of the congress could be individually spent by the accompanying congress participants until lunchtime. The afternoon invited to swing the golf club at the traditional golf tournament. A small group of four participants fetched their lunch-boxes and started out to present their best skills. This year Mr. Paulisch was the winner.

A. Quante, DCA

! Save the date !

22nd DCA Annual Congress

04th - 06th of October 2017

Van der Valk Hotel, Dordrecht

<https://www.vandervalkhoteldordrecht.nl>

Information from the task groups

Task Group 1: Disposal/Recycling of Drilling Fluids from Horizontal Directional Drillings

The task group increasingly focuses on avoiding or reducing the amount of waste, and on possibly optimizing the processes. Presently the following scenarios are investigated:



- Disposal by waste disposal contractors
- Processing and reutilisation
- Separation of solid and liquid components and separated application or chances to discharge the waste water

At the beginning of November 2016, possible solutions were explained and discussed with the Lower-Saxon Ministry of the Environment (NMU). Latest findings can be stated as follows:

- Currently the group is discussing whether the approach separating

for reutilization can be applied both intra-company and cross-site.

- Quality assurance (allowed parameters; its recording and documentation) has to be discussed and determined together with the authorities in further steps.
- The option to discharge the liquid phase (waste water) requires bringing the people responsible in.
- Eventually it is possible to resort to existing regulations (information DWA-M 115).
- Furthermore responsibilities have to be defined and determined, as well as the requisite examination of innocuousness and self-monitoring. Self-control or rapid analyses are a good approach but cannot replace an examination by an accredited laboratory.
- For the handling of solid components there are regulations, also in dependence on related areas (civil engineering underground road construction), as well as relevant rules and standards LAGA PN 98 or LAGA M 20.
- The frame conditions of these processes should be worked out in cooperation with the authorities, and should increasingly be fixed in

so-called model announcements

- The NMU does not assume responsibility for evaluating the economic viability of a measure; it is of course on the side of the industry, however.
- It will be a rather lengthy process until federal regulations will be established. Therefore it is essential: the current situation requires site-related evaluation, planning and assessing of procedure.

Furthermore other assignments or questions directed to the NMU were formulated:

- Definition of critical values for the reuse of drill slurries as working materials
- Definition of critical values for the discharge of drill slurries into the sewage system
- Waste water or liquid waste
- Formulating a quality assurance / procedures beyond accredited laboratories Viable application spectrum on the sites
- Communication with lower authorities to configure supra-regional procedures

Björn de la Motte, de la Motte

Task Group 2: Coating Quality

In four meetings to date, the task group first of all gathered and edited information about the different HDD coating systems that are available on the market. Afterwards it determined the drilling parameters that have influence on the mechanical stress of pipe coatings and categorised them. Another categorisation shall be made in matters of geological conditions. Then a matrix shall be formulated from which the suitable coatings can be



chosen for the project-specific parameters respectively.

Additionally the group intensively discussed the issue (active) corrosion protection in matters of function and measuring method. This topic proved extremely complex (as anticipated) because of its electrotechnical coherences. The challenging task now will be to cull those aspects that are needed for an adequate assessment of a drilling measure, and to include these in a comprehensible way into the document to be developed.

Concerning this matter talks were also held with experts from the

pipeline operators that do not belong to the task group.

We reported already that in the end a guideline or a code of action shall be developed that on the one hand secures the quality of coatings in accordance with the client, and on the other hand helps the HDD contractors to detect and disclose possible sources of defect and risks before take-over of a pipeline (that is often provided by client or third party).

Marc Schnau, Bohlen & Doyen

Training Course According to GW 329 (DVGW)

For the ninth time already this training course so important for supervisors in trenchless pipe laying (GW 302 – GN 2) was organised. On December 06, 2016 more than 100 participants came together in Kassel to catch up on latest developments in the field of HDD and to gain practical and professional information about this method.

Professional guidance lay again in the hands of Hermann Lübbers. He had invited a strong group of instructors, bringing along very interesting or even enthralling topics. Starting with homogeneous areas of the new VOB/C, followed by the latest developments in the field of disposal of drilling fluids, seamlessly the question came up “did DIN

ATV 18324 prove its practicability?” This information truly fuelled the discussion once more about the topic first touched, homogeneous areas. Two separate matters in just the right order, the eagerness within the room was clearly perceptible. As soon as the ruffled feathers were smoothed during lunch break, the group had a look at the guidelines for gas and water crossings. The new RIL 877 of Deutsche Bahn AG was the issue.

After these three lectures that rather had to be rated as theoretically required knowledge of supervisors, there was of course also a report from practical experience. An extremely complex building at Hamburg’s harbour and the special requirements of controlling and ranging were in the centre of attention. Around four o’clock in the afternoon the thirst for knowledge was

finally quenched, and Hermann Lübbers could close a very well accepted event with the words

“Thank you very much for your coming. We are looking forward to meeting you again in Kassel on December 13, 2017”.

Sincere thanks are given to Ms a. Große, Mr. B. de la Motte, Mr. M. Hentrich, Mr. G. Padberg and Mr. S. Bunge for their contributions.

Hermann Lübbers, DCA



Company Infos



www.transco.com.au

NEW SALES MANAGER AT TRANSCO DOWNHOLE DRILLING TOOLS GMBH IN CELLE/ GERMANY

Since 1st of September Dirk Müller has been appointed responsibility for the European Market and the Middle East. It is his aim to continue delivering the well-known “Transco Top Quality” (all tools manufactured in accordance to API Spec Q1, API Spec 7.1, ISO9001-2008 and ASME 9), as well as meeting customer needs faster by having the potential to deliver directly from the upcoming German Stock.

Also a „Refurbishment Center“ is planned for Celle in 2017.

The parent company TRANSCO MFG Australia Pty Ltd manufactures the entire HDD Tool Range since 1990 - as for example: Hole Opener, Rockbits, Stabilizer, etc.

The following companies belong to TRANSCO-Group:

- Transco Manufacturing Australia PTY LTD., Lonsdale , South Australia 5160
- Transco Down Hole Drilling Tools GMBH, D-29223 Celle
- HDD Thailand, Bangkok, Thailand 10220
- Transcontinental Supplies, 2231 FM 920 Weatherford, TX, USA

Since 2009 TRANSCO has registered a patent for its unique cutter retention system, which promises huge cost savings to TRANSCO customers.



Company Infos

DENSO GmbH Advanced in Sealing.

High quality and forward-thinking "Made in Germany" solutions. - For almost a century, this is the promise we make to our customers for all of our corrosion prevention products and innovative sealants for roads, railways, buildings, installations and pipelines.

From its roots as a one-family enterprise, DENSO Group Germany has developed into an international company family with branches in seven European countries and sales partners in more than 100 countries across the world.

The group's expansion has been highly dynamic with consistent revenue growth. DENSO offers high-quality corrosion prevention solutions like 3-ply PE/Butyl-tapes, heat shrinkable sleeves with innovative hotmelt and mastic technology, petrolatum-tapes, jetty pile protection systems, polyurethane coatings and bitumen profiles.

Due to many proven long-term experiences with DENSO's self-amalgamating tapes, the products are used worldwide for rehabilitation projects and new pipeline constructions – from Australia to Chile, Canada to Russia and South Africa to Norway. There is no other company with a longer experience in corrosion protection for pipelines.

DENSO has always been faithful to one clear concept: High product quality "Made in Germany" and a consistent commitment to service are at the heart of the business. The quality and service values are evident in everything – from the material selection processes, the outstanding production flows to the company's personal contact and close relationships with its customers all over the world.

For more information please visit the recently launched website www.denso.de and be inspired by the innovative product finder.

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info@denso.de



Application of corrosion prevention system Vivax-Coat® on a moisture pipeline (Ice Track in Germany)



Manual handwrapping with DENSOMAT®-KGR Junior at OPAL-pipeline in Germany



Application of MarineProtect™-2000FD Jacket in Russia

HDD-Course - GW 329 - in Celle

In January / February 2017 the next courses of further educations of the skilled stuff "Fachaufsichten, Bauleiter and Geräteführer" will be hold at the Bohrmeisterschule Celle.

In the following you can find the schedule of the next courses.



Course A: Rig <400 kN Pulling forces
 B: Rig >400 kN Pulling forces

1.1.1 skilled supervisor (A/B) for horizontal flush drilling method according to DVGW Worksheet GW 329

Topography and geology, flush drillings, drill string, tools, location method, raw material, regulations, operational safety

A: 09.-13.01.2017
A + B: 09.-18.01.2017

1.1.2 site manager (A/B) for horizontal flush drilling method according to DVGW Worksheet GW 329

Basics, topography, existing plants, soil variables, flush drillings and bore hydraulics, rods, drilling tools, pipe cover, raw material

A: 09.-10.1.2017
A + B: 09.-27.1.2017

1.1.3 machine operator (A/B) for horizontal flush drilling method according to DVGW Worksheet GW 329

Mathematics, physics, installation and effect of horizontal flush drill plants, project reason, project realisation, flush drilling, flush circuit, flush pumps

A: 16.01.-31.01.2017
A + B: 16.01.-07.02.2017

Please register via: Berufsförderungswerk des Rohrleitungsbauverbandes (www.brbv.de)

For further inquiries or registration please contact

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DCA - Member' s Meeting 2017



The members meeting of the Drilling Contractors Association (DCA) takes place on

**Wednesday, 08th February 2017, at 03.00 pm in Oldenburg
at the Hotel Wöbken**

The DCA invites all members to participate our members meeting on wednesday, the 08th February 2017 at 03:00 pm in the Hotel Wöbken in Oldenburg. All members will receive an official invitation and an agenda. As in the last year simultaneous translation (de/en) is available.

For further information please don't hesitate to contact our office in Aachen.

Hotel Wöbken:

Hundsmühler Straße 255

26131 Oldenburg

Tel.:+49 (0) 441 - 95577-0 ; Fax:+49 (0) 441 - 50232

E-mail: info@HotelWoebken.de; internet: www.HotelWoebken.de



31st Oldenburger Pipe Forum 2017

"Rohrleitungen in digitalen Arbeitswelten"

Lecture Blocks DCA

09th to 10th February 2017



Likewise in 2016 the DCA will be present at the 31st Oldenburg Pipe Forum with a stand and two lecture blocks referring to actual HDD projects. Also in this year both lecture blocks, which will be conducted by DCA's president Hermann Lübbers and DCA's representative for technical information, Franz-Josef Kissing, contain top-class topics, which will present up-to-date partial aspects of the HDD industry in interesting projects.

Block 1:

Moderator: Dipl.-Ing./EWE Hermann Lübbers

Lecture 1: Nichts ist beständiger als der Wandel - Anlandungsbohrung auf Zypern
Ing. Jorn Stoelinga, Visser & Smit Hanab b.v., Papendrecht, Niederlande

Lecture 2: Der Umgang mit gebrauchter Bohrspülung
RA Dr. Michael Neupert, Kümmerlein,
Simon & Partner Rechtsanwälte mbB, Essen

Lecture 3: Horizontal Casing Drilling (HCD) -
Modifikation des HDD-Verfahrens zum Vortrieb von Stahlschutzrohren
Dipl.-Ing. (FH) Marc Schnau, Bohlen & Doyen GmbH, Wiesmoor

Block 2:

Moderator: Dipl.-Ing. Franz-Josef Kissing

Lecture 4: Grenzen der Horizontalbohrtechnik HDD - Der Ingenieur als Mittler zwischen Wunsch und Machbarem
Dr.-Ing. Tim Jaguttis, de la Motte & Partner GmbH, Reinbek

Lecture 5: Verantwortlichkeiten der HDD-Bohrfirmen gegenüber
Dritten im Zuge der Durchführung einer HDD-Baumaßnahme
Dipl.-Ing. Marco Reinhard, Leonhard Weiss GmbH, Leonberg

Lecture 6: High Performance Coatings for Horizontal Directional Drilling (HDD)
Dr. Thomas Löffler, DENSO GmbH, Leverkusen



... and afterwards we'll meet in the drilling saloon!!

Upcoming Events - 22nd Annual Congress

Dordrecht, the Netherlands – Venue of DCA's 22nd Annual Congress

Please note:

October 04th - 06th, 2017

Van der Valk hotel Dordrecht

Come with us to the eldest town of the Dutch province South-Holland. Dordrecht with its 130,000 inhabitants seems like an island, bordered by broad rivers. The historic inner city is located at the intersection of Oude Maas, Noord and Merwede; this is Europe's most intensely navigated river crossing. Passing through the most important city gate Groothoofdspoort (Big Head's Gate) you have a fine view of the scenery. Ferries and water busses enable contacts to Zwijndrecht, Papendrecht and Sliedrecht, as well as Rotterdam and Gorinchem. Discover the historic harbours of the town: Voorstraathaven is the backbone of the old part of town; the Nieuwe Haven is important for commerce; and there are Wolwevershaven, the Maartensgrat and the Kalkhaven. The picturesque dockland wins over with its warehouses, traders' dwellings, piers and posh motor boats.



Dordrecht has a complex history which becomes obvious by numerous historic monuments through-

out the city. There are about 900 national listed buildings and 700 other historic buildings. It was the first city in Holland that was granted city rights in the year 1220. In the 14th century the town flourished as important trade centre, but later lost this pre-eminence to Rotterdam. Great history was made in the Court at the city centre, when representatives of all cities of Holland declared their independence from Spain in 1572. Willem, Prince of Orange, was elected leader of the Dutch Republic. Three years later the constitution was adopted and thus marked the hour of birth of an independent state The Netherlands.



Dordrecht is also quite important in matters of religion: this was the centre of Calvinism. After the Synod of Dordrecht between 1618 and 1619, the first Dutch translation of the bible was published, creating the base of the modern Dutch language.

Another landmark of Dordrecht, apart from the city gate Groothoofdspoort already mentioned, is the Grote Kerk, a church located at Netherlands' longest shopping street called Voorstraat. Its impressive tower of 65 m is home of one of Europe's largest carillon with 67 bells. If you climb up the spiral staircase with 275 steps you are recompensed by a fantastic view of the old part of town, its surrounding rivers and polders.

Dordrecht has a lot to offer for na-

ture lovers: apart from the municipal parks with their flowerbeds and ponds, you will find the national park De Biesbosch nearby; this unique marsh invites to boat-trips or nature hikes.



Could we raise your interest? Then we were pleased if we could welcome you at the Annual Congress from October 04th – 06th, 2017 in Dordrecht at the van der Valk hotel.

A.Quante, DCA

!Save the date!

**Further education site manager
by Tracto-Technik
in cooperation with DCA**

Topic: Planning at HDD site

Thursday 07th of March 2017

Location: Tracto-Technik Hauptwerk, Lennestadt
www.tracto-technik.de



Verband Güteschutz Horizontalbohrungen e.V.
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