

Mud Technology Seminar
Pilot course in Celle

Task Groups 2016
"Recycling of Drilling Fluids"
and "Coating Quality"

17 Years DCA Board
DCA bid farewell to D. Pellerin

 **DCA**
Newsletter June 2016

DCA Annual Congress 2016
21st Annual Congress in Hamburg

Sponsors of the Congress:



VORWERK



Impress

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Hermann Lübbers
President of the DCA



Dear members of the DCA,

The European Soccer Championship is already in full swing in France, and in Aachen the preparations of the meeting of the European industry of directional horizontal drillings are going full speed - our annual congress is foreshadowed. Hamburg, the metropolis on river Elbe, will be the venue this year. Top-class lecturers, a good location, and of course an ambitious social programme will hopefully convince you to do us the honour of joining us in October. Invitations are in print already and will soon be sent out.

What is the association engaged in? This question is easily answered this year:

the disposal of drilling fluids! The fewest of us reflected years ago what kind of problems this liquid, consisting of water and natural clay (bentonite), would cause us. Until today at least small-diameter drillings deployed it as "soil conditioner" onto agricultural areas; but since July 2015 this is practically forbidden. The respective decree of the Ministry of the Environment in Hanover gives certain leeway, indeed, but a great amount of drilling fluids has to be brought to the dump today, in effect. Of course waste management companies see many positive aspects in this fact; like a warm rain this decree makes for increasing sales. Today the disposal of drilling fluids "devours" costs that are already 3-4 times higher compared to some years ago. Thus the price for an average drilling in a small diameter splits into the ratio 50 % for the actual drilling, and 50 % for the disposal related to it. In the end the consumer has to pick up the tap, which means all of us via energy costs. One chance is to allocate these additional costs to the end-consumer; more likely, however, is the following: In future, enquiries will increasingly compare open with closed constructions. The HDD industry has been well positioned hitherto; it could absolutely stand up to this market competition. But given the current frame conditions, our clients will more and more often turn to open-trench constructions again, and they have to for economic reasons. The consequences of this attitude should be clear; we will have to face recession in our industry. If fewer directional horizontal drillings are tendered and applied, this will result in fewer orders not only for the contractor; producers of the equipment and waste management companies for drilling fluids will, too, feel the effects of this development. I do not want to lapse into the tactics of the European big industry and provisionally claim support from politics (keyword jobs). But neither does it help to wink at this issue. Back to the roots. Is the product drilling fluid, mixed with unpolluted soil, really harmful to the environment? Has the "waste" to be classified in a way that each drilling company will soon need transport permission for the carriage of this material? Is the application of drilling fluids mixed with drill cuttings to agricultural areas lawful according to the decree of soil protection? Above all, can it be called not harmless to the soil?

The answers can only be: no, no, it is not so. We, the industry of directional horizontal drilling, will confront the problems that lie ahead. We do not want to skirt some limiting criteria by means of wrong data like it happened elsewhere. We want to act openly but this requires that all those involved are cooperating: contractors, associations and authorities. Really important to me is how we deal with the specifications of the substances used to produce drilling fluids. As soon as we are able to provide the agrarian engineers in the committees of the Ministry of the Environment with the respective data, and as soon as we can formulate suggestions how the product can be further utilised in a duly way, the horizon will brighten up again for drilling fluids. Reprocessing of drilling fluids like it has been practised in large scale drillings for many years now will probably raise problems in small diameter drillings. DCA's task group is dealing with all these issues and will work out suggestions and concepts for the further proceedings. Still owing is a comparison of this problem in other European countries; it should be made at any rate. And we should not rule out to apply to the court in Brussels.

I wish all of you pleasant holidays and am looking forward to meeting you at our next congress in Hamburg.

Hermann Lübbers

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Oldenburger Pipe Forum 2016

DCA presented at the 30th Oldenburger Pipe Forum.

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Further Education

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Members Meeting 2016

Dr. Olaf Düwel held a guest lecture at the Members Meeting

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05.06 - 08.06.16
IN CELLE
SPÜLUNGSTECHNIK - UMGANG MIT HDD
SCHNIPFÜLLNEN UND
LABORTECHNISCHES PRAKTIKUM

Mud Technology Seminar

Handling of HDD Drilling Muds and Laboratory Training

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Information from the members

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Membership information

DCA welcomes two new members.



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Sponsors of the Congress



Der DCA would like to thank Hamburg Wasser, Friedrich Vorwerk and Tief- und Rohrleitungsbau Wilhelm Wähler GmbH for the support of the Annual Congress 2016.



Upcoming Annual Congress 2016

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21st DCA Annual Congress in Hamburg



The 21st DCA Annual congress will be hold 2016 in Hamburg.

Travel with us to one of Germany's metropolitan areas and be enchanted by the maritime charm of the Free and Hanseatic City of Hamburg.

Read more at **Page 11**



Education 2017

Education courses will take place as in in the last ye-ars at the Bohrmeisterschule Celle, Germany.

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Review Members Meeting 2016

DCA's Members' Meeting

Tackling the Problems around Disposal

Problems with handling drill cuttings and used drilling fluids were formative at the members' meeting of the DCA in Oldenburg this year.

The hall at Hotel Wöbken was well filled, when DCA's executive secretary Dietmar Quante welcomed the participants attending the members' meeting on the evening before the Oldenburg Pipe Forum, as is tradition. More than 50 % of currently 102 DCA member companies were represented at the event. This quota shows that the members are really interested in the work of their association.



DCA's executive secretary Dietmar Quante could welcome more than 50% of all members.

Looking back on 2015, DCA's president Hermann Lübbers reported about the association's activities. Apart from the presence and shaping of lecture blocks at the Oldenburg Pipe Forum, and an event on the occasion of the association's 20th anniversary at Mannesmann Line Pipe in Salzgitter with a visitation of the pipe production, the annual congress of the association in Marseille in the autumn was a

highlight of the past year. 123 participants with their positive feedback again proved that this annual event, offered at different places in Europe, has become a fixture in the calendars of the HDD field of industry. Furthermore the DCA was actively committed in the area of training and further education of skilled personnel, supported by training courses according to GW 329 at Bohrmeisterschule in Celle.



Hermann Lübbers sums up the successful last year of the association

Two Task Groups

First the Technical Guidelines for the HDD technique had been thoroughly revised, and then this construction method could finally be implemented into the current edition of the VOB; thus two important projects of the association's work could be completed successfully. And now DCA's attention is targeted onto the topical problem concerning the disposal of drill cuttings and drilling fluids. Therefore the association organised an informational event in Mellendorf on October 12. Also involved was the Lower-Saxon Ministry of the Environment, whose decree from August 7, 2015 had caused this serious crisis of the disposal problem.

Guest from the Ministry

A representative of the ministry, Dr. Olaf Düwel, who is responsible for preventive soil protection, even

came to Oldenburg to explain to the members at their meeting the legal background around legislations of disposal, fertilizers and soil protection and the ministry's attitude in this respect. According to that the subordinate authority of soil protection has to be called to clarify whether it is allowed to exploit mineral residual minerals/waste products. This authority then should demand information about amount, contaminant content and physical properties of the drilling mud of each individual drilling. Furthermore it should demand explanatory statements how is aimed for securing or rehabilitating the soil function; this should be evaluated according to the federal regulations for soil protection. Düwel's lecture at the members' meeting not only provided information; it clearly signals the ministry's readiness to exchange dialogue with the drilling industry.



Dr. Olaf Düwel during his speech at the podium

The DCA initiated a new task group to deal with this problem. The members of this task group come from drilling companies, machine producers, and suppliers of drilling fluids, clients and engineering offices. They shall work out approaches that are feasible and conforming to the law how to handle used drilling fluids; their feasibility shall be discussed with the licensing authorities.

Training and Further Education also a Core Area in 2016

Another task group will deal with the quality of pipe coatings. Objective is to bring clarity and order into the manifold contexts and parameters of this complex issue.

Apart from training courses according to GW 329 in Celle and a HDD course for site managers at Tracto Technik, DCA's training in offer 2016 is for the first time a course of three days about flushing technology that will be held at Bohrmeisterschule Celle, ending with a degree as skilled staff of flushing technology at HDD sites. Furthermore it is planned to grant the Sponsorship Award this year again.

Annual Congress in Hamburg



Hamburg, DCA's next congress location

A special highlight shall become the annual congress that will be held from October 5-7, 2016 in Hamburg. The programme is already being worked out intensively. Those from the DCA that are pre-occupied with organising the congress comprehend the success of the congress in Marseilles to be both, incentive and challenge.

Changes within the Board

Among the duties of a members' meeting are regular elections according to the statutes. This year the position of the vice-president had to be filled since Denis Pellegrin, the former one, did not run again for office. Hermann Lübbers warmly thanked him for his work for the DCA in the past years. Replacing him, the former representative for the care of members Marc Schnau was elected as vice-president. His former position was filled by the members with Atef Khemiri of HDI from France.



Marc Schnau new vice president

In the end the members followed the board's suggestion and raised the membership fees by 5 % after a ten-year period of stability. Obviously the arguments that had been introduced by Hermann Lübbers were convincing in terms of needfulness. This resolution was adopted like that one concerning the elections to the board: unanimously.

A. zu Eulenburg, bi

Preview 2017

Members Meeting:
08th of february 2017



Hotel Wöbken (Oldenburg)



View of the meeting room

Oldenburger Pipe Forum:
09th-10th of february 2017



DCA booth at IRO Oldenburg



Again 6 HDD lectures at the IRO

Please Note!

Review Members Meeting

Introduction of Atef Khemiri, HDI

First, I would like to thank all the members for their trust. Being a member of the DCA's board is a great honor.



I am 34 years old, happily married and living in the "City of Light", Paris.

I graduated as a Civil Engineer and followed my Master Degree studies focusing on Transport Infrastructures. My career started nearly 10 years ago, precisely on January 2007 as I was looking for a job in roads construction. Instead, I ended up in the HDD business, with HDI. That is what we call "Destiny"!

The journey with HDI started at the Design & Tendering Department and lasted for two years. Two years where I learned the business, with the DCA Guidelines being my "Bible".

Then seven years in the field as a Project Manager, mostly in South Africa and Papua New Guinea, a great position where you learn a lot about the HDD business, about Team Management and about yourself.

Then I met she who became my wife a few months before the completion of the project in Papua New Guinea. We had organized our wedding via Skype and we got married between two rotations. Consequently, I was not allowed anymore to spend too much time abroad without heavy negotiation!

HDI offered me the position of Business Development Manager mid 2014, which is the position I hold today. No more heavy negotiation with my wife since then.

A. Khemiri, DCA

His field of activities comprised for example formulating three editions of the Technical Guidelines in French, organising three annual congresses in Strasbourg and Marseilles, and numerous other projects.

Farewell to Vice-President Denis Pellerin

Over 17 Years in DCA's Board

During the members' meeting in February 2016, the DCA took official leave of Vice-president Denis Pellerin after 17 years of work at DCA's board. Before this meeting Denis Pellerin had informed his board colleagues that he was no longer available for a position at DCA's board because of his professional engagement.



Denis Pellerin was one of DCA's seven founding members that had launched the association in Düsseldorf on December 1, 1994. The scope of his work at the board ranged from treasurer from 1995 till 1996, and later representative for special events and for the care of members. After a short break he again accepted the position as treasurer in 2005; and at the members' meeting in 2008 he was finally elected vice-president of the DCA siding with Hermann Lübbers. He held this position for four election periods until February this year.



Farewell to Vice-President Denis Pellerin

At the members' meeting, president Hermann Lübbers appreciated his sedulous commitment to implementing DCA's objectives, in particular in French-speaking areas.



Ballon flight as leaving present

For his farewell the president presented his leaving board colleague with a raincheck for a balloon flight over Paris and wished him all the very best for his future, affirmed with great éclat by all members.

*H. Lübbers, DCA
D. Quante, DCA*

30th Oldenburg Pipe Forum

HDD Lectures and DCA's Stand Again Well Attended

The event of the Oldenburg Pipe Forum presented itself to its visitors for the 30th time by now this year. The forum had this year as motto "‘silly’ pipes – ‘intelligent’ networks – models, simulations and control of infrastructures". This was implemented by manifold lectures held in the well-known rooms in Oldenburg from February 11 to 12, 2016.

Like every year, two blocks of lectures were provided by the DCA. DCA's president Hermann Lübbers hosted block 1 that came up with three interesting lectures. First Dipl.-Ing. Marc Schnau of Ing. Luit Uijen, Bohlen & Doyen GmbH in Wiesmoor reported about the project "Greek rock – directional horizontal drillings i.a. under the Corinth Canal". It was followed by the elaborations by B. Eng. Ole Eichhorst and Dipl.-Ing. Jörg Himmerich of Dr.-Ing. Veenker Ing.gesellschaft mbH in Hannover concerning "Chances and limitations of the application of trenchless laying techniques in district heating pipeline constructions". Concluding engineer Jorn Stoelinga of Visser & Smit Hanab b.v. in Papendrecht informed about "All's well that ends well? Installation of cable systems below the 'Haringvliet' in the Netherlands."

A second block with equally three lectures followed, presented by DCA's board member Franz-Josef Kissing of Open grid Europe GmbH in Essen. The project "Underground crime thriller on river

Neckar – constructing three parallel culverts" was presented by Dipl.-Ing. Marco Reinhard of Leonhard Weiss GmbH & Co. KG in Leoberg. It was followed by a lecture by Dipl.-Ing. Timo Mücke of Beermann Bohrtechnik GmbH in Riesenbeck about „Experiences with drain drillings in open cast mining". Concluding Gerd Paulisch of TDC Technical Duroplastic Constructions GmbH in Trollenhagen informed about "Retroactive coating of welding seams by means of glass fibre reinforced resin systems (GRP)". Like every year the lectures had many listeners and met with great approval.



Gabriele Schmidt, DVGW Cert, wins HDD-competition

DCA's traditional Drilling Saloon, located at its familiar spot at the Oldenburg Pipe Forum, had many visitors as well. Talking shop they enjoyed a chilled beer and delicious snacks. One or the other guesses were made in view of the DCA guessing game. The first prize, headphones of high quality, finally went to Gabriele Schmidt of the DVGW Cert GmbH who hit the nail squarely on the head when she estimated the number of marbles.

D. Quante, DCA

Training of Specialised HDD Staff according to GW 329

From January 11 until February 09, 2016 this year's training courses in the field "directional horizontal drillings" were held at Bohrmeisterschule Celle. Like every year these courses were offered in cooperation between the BRBV (Berufsförderungswerk des Rohrleitungsbauverbandes – vocational training centre of the association of piping companies) and the Drilling Contractors Association DCA as well as the training institute, this year Bohrmeisterschule Celle. Fortunately courses could be offered again this year. They were well received and acknowledged by the participants. Be it organisation, subject matters or lecturers, everything was evaluated throughout positively. The following groups were trained:

supervisors (A): 17 participants
 supervisors (B): 2 participants
 site managers (A): 6 participants
 site managers (B): 2 participants
 machine operators (A): 21 partic.
 machine operators (B): 3 partic.



Participants of the education course

All participants passed the courses successfully. Now we are hoping for a large number of participants in January/February 2017 again. Bohrmeisterschule Celle will be on our side again as competent training centre.

H. Lübbers, DCA

News from the Task Groups

Task Group 1: Disposal/ Recycling of Drilling Fluids from HDD

Task group 1 will deal with the issue disposal and recycling of drilling fluids in HDD. This task group shall work out approaches and possible solutions of the matter; thus it shall make sure that an amicable procedure will be on hand in future concerning the disposal or recycling of drillings fluids for all parties involved. The issue will be dealt with in close coordination with the Niedersächsische Ministerium für Umwelt, Energie und Klimaschutz (Lower-Saxon Ministry for the Environment, Energy and Climate Protection).



Technical Leadership:

Dipl.-Geol. Björn de la Motte,
de la Motte & Partner Ingenieurgesellschaft mbH

Targets:

- Interpretation of the KrWG (Closed Cycle and Waste Management Law), the BSchV (regulation governing employment) and the DüMV (fertiliser regulation)
- This decree does not close the door to deploy cuttings and drilling fluids onto agricultural areas!
- Elaborating the conditions facilitating a disposal on agricultural areas.
- Compiling all chemical key data of the drilling fluids to be able to make a statement concerning the products' agreeability with soil (with reference to agriculture)
- Chances to reduce the quantity of drilling fluids (which reduces the problem but is already state of the art)

Task Group Member:

Dr. Hans Joachim Bayer,
Tracto Technik GmbH & Co. KG
Fred Blomsma,
Cebo Holland B.V.
Edgar Mrotzek,
Bohlen & Doyen GmbH
Heiner Schwartz,
LÜBA Leitungsbau GmbH
G. Silvers,
Max Wild GmbH
Bjoern Schmidt- Dudek,
AMC-Germany GmbH
Andreas Schulze,
AMC-Germany GmbH
Roland Stutzki,
Hamburger Stadtentwässerung
Holger Vorwerk,
S&V Tiefbautechnik GmbH
Corne Willems,
SiteTec B.V.
Michael Bijok,
EWE Netz GmbH
Mirko Bischof,
OOWV

Task Group 2: Coating Quality

Task group 2 will handle the issue coating quality. Recurrent discussions because of defects of the coating of steel pipes after pull-in during a horizontal directional drilling prompted this task group.



Technical Leadership:

Dipl.-Ing. (FH) Marc Schnau,
Bohlen & Doyen GmbH

Targets:

First of all the task group shall analyse the current situation concerning the applied coating materials, testing methods and the regulations related in matters HDD technique. Furthermore it shall formulate measures/recommended actions that shall on the one hand secure the coating quality from the client's point of view, and on the other hand help the horizontal directional drilling contractor to define and point out sources of defects and risks before taking over a pipeline (often provided by client or a third party).

Task Group Member:

Hans-Jürgen Kocks,
Salzgitter Mannesmann Line Pipe GmbH
Klaus-Dieter Buhr,
Steffel KKS GmbH
Stephan Birtner,
Westnetz GmbH
Atef Khemiri,
Horizontal Drilling International SA
Gerd Paulisch,
TDC Technical Duroplastic Constructions GmbH
Jorn Stoelinga,
Visser & Smit Hanab
Dr. Löffler,
Denso GmbH



Mud Technology Seminar – Handling of HDD Drilling Muds and Laboratory Training

06. – 08. June 2016 at Drilling School Celle (Bohrmeisterschule Celle)

For the expert supervisor and the specialist staff in charge of a horizontal directional drilling the basic knowledge about HDD drilling muds is communicated in courses according to GW329. These courses are offered successfully for years in cooperation with the DCA and the Rohrleitungsbauverband e.V. by the Drilling School Celle which is approved by the State Lower Saxony, Germany. During the practical work on the installation site the knowledge in the environment of the mud engineering is diverse and often insufficient. Having this in mind the DCA has established with the Drilling School Celle a temporary training concept to improve the knowledge in the practical handling of HDD drilling muds to offer an advanced training for the specialist staff working on site called “Fachkraft für Spülungstechnik für HDD-Baumaßnahmen”.



Meeting room in Celle

By invitation of the DCA to their members a pilot project had been started for six participants. In theoretical lessons mud technology was intensified. In practical work the usage of mud was facilitated.



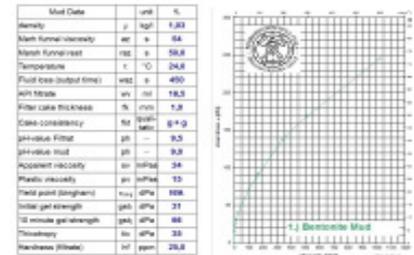
06.06 - 08.06.16
IN CELLE
SPÜLUNGSTECHNIK - UMBANG MIT HDD
BOHRSPÜLUNGEN UND
LABORTECHNISCHES PRAKTIKUM



As conclusion of this pilot course as transfer of knowledge and implementation of the essential aims according to the program is recorded which could be implemented successfully? The close coordination between the lecturers and speakers from practice referring to the theory is proved successfully and thereby theory and practice complemented in an excellent way. The feedback of the participants turned out overall positive.

The evaluation by the participants highlights the small teams, the intensive professional care by the instructors in the lab and the broad use of the mud lab. All participants finished the seminar of further training successfully.

After evaluation of the survey and experiences of the appointed lecturers the content of the course will be adapted to the wishes and requirements of all participants to come out a successfully and among experts accepted workshop. Provision is made for an offer of this course in the winter (December till February) to enable companies and the staff to simplify the participation in this further training. All in all it can be determined that the further training for professional career as “Fachkraft für Spülungstechnik bei HDD-Baumaßnahmen” means an improvement of quality with in the construction of HDD drilling.



Data sheet Mud Technology

Generally it can be stated that this seminar “Fachkraft für Spülungstechnik bei HDD-Baumaßnahmen” leads to a quality improvement for the overall process.

Dr. U. Grossmann, BMC
H. Lübbers, DCA

DCA's Office with High-speed Internet

Access enabled by the technique of horizontal directional drilling

Between January and the end of March this year, a particular incident occurred right in front of our office. Usually people complain if they are residents or employees of companies and have to experience a stretch of underground engineering coming with blocked entrances, unreachable parking areas and the like. But it was different at Charlottenburger Allee in Aachen at this year's beginning. Right in front of the "home" of the Drilling Contractors Association ran a stretch laying a bundle of cable conduit for cabled distribution.



Work at the office

Specific preconditions had to be faced: the soil conditions (contaminations), season (cold weather) and – not to be sneezed at – "days absent" because of the "rest period during carnival" in force in Aachen's municipal area. All these hurdles were mastered by our member of many years Beermann Bohrtechnik GmbH.



Fast internet is on its way

Those working at DCA's office were neither on their way to or from work, nor in other activities restricted in any way. On the contrary, the project activities gave everybody insight into the practical performance of a directional horizontal drilling.

H. Lübbers, DCA

Information from the member companies and the office

Two new members

In business year 2016 the DCA could win over and register two new members until today, one of them as regular, the other as associate member. The new regular member is Karl Huneke Straßen- und Tiefbau GmbH from Leer. Denso GmbH from Leverkusen joined the DCA family among the associate members. TAU Ingenieurgesellschaft from Berlin left the association. Thus the current number of DCA members amounts to 101 members (37 regular, and 64 associate members).

D. Quante, DCA

Fritz Eckard Lang new President of Rohrleitungsbauverband e.V. (rbv)

At the general meeting of Rohrleitungsbauverband (association of piping companies) on April 22, 2016, Dipl. Ing. (FH) Fritz Eckard Lang of Lang GmbH Bauunternehmen since 1891 in Bodenheim was elected new president of Rohrleitungsbauverband. He succeeds Ms. Dipl. Volksw. Gudrun Lohr-Kapfer of Franz Lohr GmbH in Ravensburg.



Fritz Eckard Lang
new President of rbv

Fritz Eckard Lang is again an authentic businessman presiding over the Rohrleitungsverband who has been committed to association work for many years. Lang was both vice-president of Gütegemeinschaft Leitungstiefbau e.V. (GLT) (quality control association), and chairman of the Güteausschuss (quality committee). Moreover he has been DCA's regular member since 2006 via Bohrservice Rhein Main.

The DCA wishes Mr. Lang all the best for his future work as president of the rbv.

D. Quante, DCA

DCA's 21st Annual Congress will be held from October 05 – 07, 2016 in Hamburg.

Focal attention lies at lectures on HDD issues and a site visitation

Bremen in 1996, Celle in 1999: after a longer absence DCA's 21st annual congress will be held again in northern Germany, namely in the Free and Hanseatic City of Hamburg. From October 05 – 07, 2016 members, partners and friends of the DCA will meet near Außenalster (Outer Alster Lake) at Dorint Hotel Hamburg Eppendorf; interesting lectures and the exchange of experiences are awaiting us. In addition to lectures, the congress will include a site visitation that has been organised by Hamburg Wasser, the project "Schnelseener Deckel" and "Langenfelder Brücke" (tunnel and bridge on autobahn A 7). Sponsors of DCA's 21st annual congress will be Hamburg Wasser, Tief- und Rohrleitungsbau Wilhelm Wähler GmbH and Friedrich Vorwerk.



Congress hotel in Hamburg

The Free and Hanseatic City of Hamburg has 1.77 million inhabitants and thus is Germany's second largest city, and the third largest city in the German language area. Hamburg's harbour is Ger-

many's biggest seaport and belongs to the 20 largest container harbours of the world. Since 1996 Hamburg is home of the International Tribunal for the Law of the Sea. Overall the Hanseatic city, including its airport, is as traffic junction one of Europe's major logistic hubs. The city of Hamburg is also economically and academically prominent in cutting edge technologies like aerospace engineering, biomedical sciences and information engineering, the consumer goods sector as well as the media scene and the creative industries.



Meeting room at the Dorint

Similar to the past years, the programme of the 21st annual congress will be primarily characterised by the site visitation mentioned before and lectures about interesting HDD projects and about professional HDD issues. A highlight will surely be the lecture by Prof. Dr.-Ing. Kurt-Michael Borchert of GuD Geotechnik und Dynamik Consult mbH who will report about the system of homogeneous areas according to the new VOB part C 2015. Beyond these HDD specific issues superordinate subjects will be presented, as is tradition. Among these are this year for example the lectures concerning network development plans in Germany or about augmenting the intake capacity of power supply networks for renewable energies by means of hybrid solutions in gas distribution systems.



Site visit Autobahn A7

The congress programme will again be rounded off by an attractive social programme, also open to accompanying people.

D. Quante, DCA

Hamburg – Free and Hanseatic City

Travel with us to one of Germany's metropolitan areas and be enchanted by the maritime charm of the Free and Hanseatic City of Hamburg.

Hamburg's harbour is the largest one of Germany and belongs to the twenty biggest container harbours worldwide. The city is proud of its long history; particularly outstanding is the age of the Hanseatic League. In union with Lübeck and other cities, Hamburg was a trailblazer of this European league. The city flourished through free-trade, in evidence until today by precious cultural monuments. In July 2015, the Speicherstadt (Old Warehouse District) from the age of industrialisation and the adjacent Kontorhausviertel (quarter of office buildings), mostly dating from the Golden 1920's, were declared World Heritage Sites by the UNESCO.

Hanseatic City of Hamburg

Hamburg offers many other sights that attract tides of visitors from all over the world: along with Hafencity and Speicherstadt, the famous Hamburg fish market, the Landing Bridges, the harbour and river Elbe, as well as St. Pauli with its "sinful mile" Reeperbahn are real tourist loadstones. Among the renowned buildings of Hamburg are the Michel, a church that is Hamburg's historic landmark, and the town-hall.



The "Binnenalster"

Hamburg has more than 1.77 million inhabitants and is Germany's second largest city. It is centre of the Metropolitan Area Hamburg with about five million inhabitants altogether. District Eppendorf where our venue 4-star Dorint Hotel is resident is distinguished by its ideal location. 5 km from the airport or from the city centre, northwest of Außenalster (the bigger banked-up part of small river Alster), it offers plenty of nature and tranquillity that can be enjoyed in a multitude of parks.

For those of you who would like to go on a shopping spree, Eppendorf is just the right place. Cool and stylish fashion from Sweden is offered at "Grand Hotel of Sweden"; at "Linetette" you will find the topical collections of Chloé, Marc Jacobs, Marni or Prada. Then you might proceed towards the comfy "Kaffeerösterei Burg" (coffee roasters) on Eppendorfer Weg; here you can buy various types of freshly roasted coffee, as well as cocoa, tea and chocolates. Amateur chefs

rejoice about the assortment of fancy salts, spices, oils and many more that are offered at "Violas' Gewürze & Delikatessen" (spices and delicacies) at Eppendorfer Baum. There are numerous small boutiques waiting for you to comb through, for example the mini-shopping centre "Kaufrausch" (shopping frenzy) with its unusual accessories and a posh coffee bar, or "Wechselstube" (bureau de change), a small shop with a wide choice of products by Boss, Strenesse, Prada or Jil Sander. Nobody wants for the hustle and bustle at the city centre with its large temples of consumption.



The "Speicherstadt"

On Wednesday, October 5, 2016, the afternoon comes up with an outstanding guided tour: immerse yourself into the unique ambience of Kontorhausviertel and Speicherstadt. The two blocks of buildings belong to UNESCO's World Heritage Sites since 2015. Learn about the development of the warehouses, how Kolonialwaren (old expression for groceries from the colonies) were stored and moved and their turnover.

The second part of this afternoon's programme will continue with a ride to the Old Elbe Tunnel. It was opened in 1911 and turned into a tourist spot in 1970, connecting Landungsbrücke (landing bridges) to Steinwerder. During the visitation of this tunnel you will be given an understanding of its historical background.

On Thursday, October 6, 2016, the tour will first stop at Hamburg's Blue Mosque on Außenalster. It has a striking blue facade and is Germany's fourth eldest mosque. It is the domicile of one of Europe's largest Islamic centres. The tour continues towards the second location of the afternoon, a visitation of the arts and crafts house "Koppel 66" in district St. Georg.



Hamburg's harbour

A most variegated artistry can be marvelled at in this former machine works in Art Deco style. Be inspired by milliners, handmade styli and pens, jewellery workshops and many more. Then the tour becomes comfy: we invite you to a cruise by launch over Hamburg's Fleet (town canals) of Speicherstadt. Around noon we will have a refreshment at a restaurant directly on river Elbe; afterwards a walk through the (shopping) streets of Ottensen, aka little Paris on the Elbe, is planned. Ottensen will win you over with its shopping facilities, its beneficial parks, and numerous pavement cafés – just a diversified potpourri. Be surprised!

Now then – did we spark your interest? Then we would be pleased to welcome you at our annual congress in Hamburg in this year's October.

A. Quante, DCA

A7 - Schnelsener Deckel and Langenfelder Brücke

DCA visiting projects of development

The transport axis autobahn A7 is one of Germany's most important links, and according to the Bundesministerium für Verkehr und digitale Infrastruktur (Federal Ministry of Transport and Digital Infrastructure) it has reached its load limit. The A7 is nearly 1,000 km long and leads from the Danish to the Austrian border, from the federal state Schleswig-Holstein to Bavaria. Germany's longest autobahn is the most important north-south connection of the republic.

Its first sections led from Göttingen via Kassel to Bad Hersfeld already in the 1930's. It took more than 50 years to complete the extension. Hamburg was connected to the A7 between 1953 and 1962, initially only south of river Elbe, however. The closing of northern gap up to the Danish border was not carried out until the end of the 1970's. At that time the autobahn cut deep into the structures of city and landscape. Since Schleswig-Holstein, and thereby also Northern Europe, had been connected to the national autobahn network more than 40 years ago, the A7 steadily gained significance for the whole Northern German and Scandinavian region.

Today the A7 plays a central role in the transit traffic between North and South, as well as in the traffic to and from the commercial metropolis Hamburg, in particular to pulsating Hamburg harbour. But the double function of transit and city traffic thus causes above-average

strain for the autobahn. On hardly any other section in Germany are so many vehicles on the way. As already mentioned, the A7 has increasingly reached its load limit during the last years; some sections already exceeded this limit considerably. On the six-lane section from interchange Hamburg-Nordwest to Hamburg-Stellingen alone, up to 150,000 vehicles are running per day.



Schnelsener Deckel A7

The fundamental idea of the major project A7 development can best be illustrated in Hamburg-Schnelsen. The development combines the autobahn's extension 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 future modern noise barriers will start about 830 m south of interchange Hamburg-Nordwest leading north. The new noise-protective tunnels in Stellingen and Altona, as well as the cap realised in context with the PPP project let the city grow together again. Over a length of about 550 m the A7 will be completely covered in Schnelsen. Along with improvements for long-distance and urban traffic in Hamburg, the residents' quality of life will be enhanced as well. The new ground level will provide parks and recreation areas – room to rest and recreate.

The Schnelsen tunnel belongs to the technically most challenging constructions of the whole PPP project. It will run from the street crossing Heidlohstraße across Frohmstraße nearly up to interchange Hamburg-Schnelsen. By lowering the lane up to 1.5 m the required headroom will be assured. Within 34 months ca. 57,000 m³ sand will be moved and about 33,500 m³ armoured concrete will be used. 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 thus offers enough room for the new A7 with six lanes. Portal buildings at the tunnel's entrance and exit make the transition to the noise barriers.

(www.via-solutions-nord.de)

Within the framework of the congress the DCA will visit the Schnelsen Deckel and then the site Langenfelder Brücke. The visitation was organised by Hamburg Wasser and accompanied by the companies Via Solution and Hochtief. First the two projects will be introduced in the morning; in the afternoon the actual visitation will take place.

Given the safety requirements regarding the visitation of the A7 sites we kindly ask you to bring sturdy shoes and, if possible, a safety helmet.

D. Quante, DCA

21st DCA Annual Congress Hamburg

Topic: Environmental friendly Technology – HDD what else?

Wednesday, 05th October 2016

11.30 – 18.00 „Check in“
Dorint Hotel Hamburg-Eppendorf

13.00 Lunch at Dorint Hotel

14.30 Discover Hamburg

19.30 „Cocktail reception“
sponsored by Dorint Hotel

20.00 Dinner at Dorint Hotel

Thursday, 06th October 2016

09.00 Welcome
Dipl.-Geol. Dietmar Quante,
Executive Secretary DCA-Europe

09.15 Welcome
Dipl.-Ing. (EWE) Hermann Lübbers,
President DCA-Europe

09.30 National Development Plans and additional activities
M. Eng. Robin Dornauf, Bundesnetzagentur für Elektrizität, Gas, Telekommunikation,
Post und Eisenbahnen, Abteilung Netzausbau

10.10 Boosting Grid Connection Capacity for Renewables in Electricity Networks
by Hybrid Solutions in Gas Networks
Dr.-Ing. Enno Wieben, Leiter Strategische Netzentwicklung, EWE NETZ GmbH

10.50 Coffee break

11.10 "HAMBURG WASSER - Today and in Future"
Dr. Kim Augustin, HAMBURG WASSER

11.40 A 7 of the future – Transport axis of the north Schnelseener Deckel and Langenfelder Brücke
Christian Merl, Via Solution
Roland Garn, HOCHTIEF

12.30 Lunch at Dorint Hotel



- 13.30 - 17.00** **Site visit A7 „Schnelseener Deckel“ and „Langenfelder Brücke“**
- 18.30** **Meeting Hotel Lobby – Transfer by bus**
- 19.30** **Dinner at Zollenspieker Fährhaus**

Friday, 07th October 2016

- 09.00** **Geotechnical aspects of a demanding construction pit in the HafenCity Hamburg**
Dipl.-Ing. Stefan Reich, HPC AG, Hamburg
- 09.30** **"Neodren® and Neodren Plus® Systems for Seawater Collection - Projects Executed and Reliable Experiences"**
José María Rodríguez Brasas, Catalana de Perforacions
- 10.00** **Crossing of the Altenwerder Hauptdeich in Hamburg - Combination of different underground construction methods**
Dipl.-Ing. FH Michael Fredrich, Tief- und Rohrleitungsbau Wilhelm Wähler GmbH
- 10.30** **Coffee break**
- 10.45** **Radar Antennas in a HDD-Drillhead - what about the future application? First Testresults of the European ORFEUS-Development-Project**
Dr. Hans-Joachim Bayer, TRACTO-TECHNIK GmbH & Co. KG
- 11.15** **System of the homogeneous zones according to the VOB, Part C, issued in 2015**
Prof. Dr.-Ing. Kurt-Michael Borchert, GuD Geotechnik und Dynamik Consult GmbH
- 12.00** **River crossing in carstic soils**
Dipl.-Ing. Ernst Fengler, LMR Driling GmbH
- 12.30** **Discussion**
- 12.45** **End of program**
- 13.00** **Lunch at Dorint Hotel**

HDD-Course - GW 329

In January / February 2017 the next courses according to DVGW Worksheet GW 329 of the skilled staff "skilled supervisor, site manager and machine operator" 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: January/February 2017
A + B: January/February 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: January/February 2017
A + B: January/February 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: January - February 2017
A + B: January - February 2017

For registration please contact:

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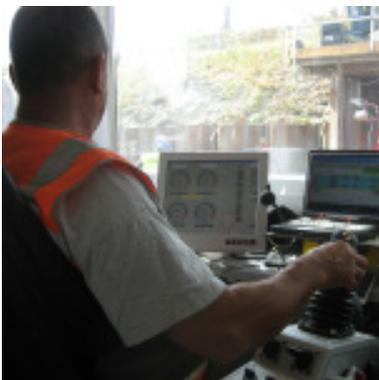
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