



Verband Güteschutz Horizontalbohrungen e.V.
Drilling Contractors Association (DCA Europe)
Association des Entrepreneurs de Forage Dirigé

large scale drilling
Newsletter
small scale drilling
02/2020

HDD under the sign of Corona
*DCA representatives report from
Italy, Spain and the UK*

Focus on the European idea
A mid-term review

**Members' Forum HDD technology
will take place in Aachen in 2021**
*Topic "Soil investigations",
bilingual*

Impress

Information according § 5 TMG:

Drilling Contractors Association (DCA)
Charlottenburger Allee 39
52068 Aachen

Authorised to represent executive board:

1. President: Jorn Stoelinga
 2. President: Marco Reinhard
- Treasurer: Jürgen Muhl

Contact:

Phone: +49 241 9019290
Fax: +49 241 9019299
E-Mail: dca@dca-europe.org

Registration information:

Recorded in the register of associations.
Register court: Amtsgericht Mönchengladbach
Company registration number: 18VR1860

Accountable for the content according to § 55 Abs. 2 RStV:

Dipl.-Geol. Dietmar Quante
Dipl.-Geol. Antje Quante
Charlottenburger Allee 39
52068 Aachen, Germany

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Preface

Dear friends of the DCA,

these are strange times and I hope you and your loved ones are all in good health. As many of you, I am working from home. Access to the office is limited to a minimum presence and modern technology enables us to do a lot while not being there. At the same time, I experience mixed feelings about it, because an important aspect of the “normal” working day is missing. Personal, live contacts, which we have always taken for granted, now turn out to be very important and an essential part of our work. Sure, via Teams, Zoom and similar programmes we can organise meetings, but body language is easily missed, certainly when cameras are turned off. Especially in meetings with people you have never met before, and dealing with difficult topics such as permit issues or additional works, live meetings are far more effective.



On the positive side, it also saves a lot of time, not only on hours spent in planes, trains and automobiles but online meetings seem to be less time consuming. Which is not necessarily the same as more effective!

However, we are an association of HDD contractors and therefore more important is how this pandemic affects the day to day work in the field. Additional cost caused by hygiene measures and the safe distance (more vehicles, additional canteen facilities etc) apply to every job site. In some cases these will be relatively minor, in other cases these can be substantial. It will obviously depend greatly as well on the kind of work that your company is doing. Crews that leave home and return the same day, on small drilling rigs are likely to be less affected than teams that leave home one Monday morning only to be back week(s) later. Under the current situation the crews are staying in hotels that offer only limited services. And possibly have to go 10 days into quarantine upon return as well, if not (also) when arriving. Although unpredictable, these costs must be taken into account. Especially the ever changing rules and regulations, the differences between, and even within countries are making this to an unpredictable factor in our estimates. How this all affects some of our members can be found in an article on the Corona situation, later in this magazine.

And on top of this, there is another danger on the horizon: Brexit will have an effect on all of us. Some may be hurt only a little as a general economic factor. Others will be hit more severely by it, because they do a large share of their business in the UK, or sourcing part of their products and services from the UK. Obviously, for our UK based members, the problems could be even more serious. Another uncertainty, which is not making our life easier. This goes completely against the values that the DCA stands for, being a European association. An interesting article how the DCA developed more and more as being truly European can be found on page 6.

Amidst all this turmoil, the DCA tries to continue to be there for our members, but like everything else, nearly all events we and our partners had planned and organised for this year had to be cancelled. As I am writing this, we still hope to be able to organise our annual workshop in January. Although we had planned to make it available in both English and German, travel restrictions may exclude international members to visit Aachen and we may have to limit ourselves another year to a German version only.

Apart from that, the board continues to work on the Task Groups, the revision of the guidelines and other important items. This seems to pay off, the number of members continues to increase; we now have a total of 129 members, of which 49 are ordinary members, 78 associate and 1 honorary member. A good starting point for the next year!

I wish you all a merry Christmas and a happy 2021, a year in which we hope the pandemic will be under control, and no further threats arise.

A handwritten signature in blue ink, appearing to read 'Jorn Stoelinga', with a stylized, flowing script.

Jorn Stoelinga, Präsident

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small scale drilling

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HDD under the sign of Corona

DCA representatives report from Italy, Spain and the UK

The corona virus is still omnipresent and will continue to occupy industry and its protagonists in business and private life until 2021.



Reason enough to get a picture of the mood in the association and to answer the question how DCA members have dealt with the complicated situation in the meantime. The DCA representatives from Italy, Spain and the UK asked member companies about this issue and gathered reactions from them, in addition to the description from their own companies.

Renzo Chirulli of Vermeer, DCA representative for Italy, starts as HDD supplier and reports from his worldwide operating company. Furthermore, he reports extracts from the results of an interview with Marcello Viti from DCA member Anese SRL, who has been a regular member of the DCA for several years.

Unplannability of projects as a major problem



Renzo Chirulli

The impact of the corona pandemic is quite different for the two companies. According to Chirulli, Vermeer is not affected significantly due to its extensive dealer network. Neither would they have registered any dealer insolvencies to date. Anese SRL was much more affected by the corona pandemic because of its drilling activities.

The accessibility of construction sites abroad does not impose any significant restrictions on Vermeer. Most of the travel are made at national level due to the large dealer network. Therefore, the effects of flight cancellations, increasing flight costs and quarantine measures are less problematic. According to Viti, Anese SRL has concentrated mainly on the Italian market in recent months and does not currently plan to operate outside Italy in the coming months.

According to Chirulli, Vermeer does not register any remarkable changes in the scheduling of its customers' projects over a certain period of time with constantly changing corona requirements. Its services for industry play a crucial role in the building/empowerment of existing infrastructures, which would thus be more resistant to this type of emergency and exceptional situation.

Viti replies that planning is one of the most difficult aspects to implement during this period and that the extension of uncertainty over the time will further increase the difficulty of being able to plan. There are big delays in recovering the permits to perform many of the preparatory activities, the start of projects would often have to be postponed and schedules could often not be met. Secondly, this would be accompanied by an increase in personnel costs, a decrease in productivity and a decrease in turnover. Especially for smaller projects the insolvency of clients is a real problem, which of course would increase over time.

According to Viti, additional costs were incurred by the Corona pandemic, mainly due to the safety measures involved, but mainly due to the delay in the work itself. It had become difficult to get projects off the ground and deliveries on time. Customers would undoubtedly show understanding for the problem, but would only acknowledge this to a very limited extent in contracts.

Chirulli declares that there are no problems with the procurement of materials on the construction sites. According to Viti, Anese SRL states that the material procurement, especially for those from abroad, bentonite, polymers, tools, etc. has become very complex and is taking longer than expected. According to him, the need of personnel for any maintenance work that may be required is, in his view, a „nightmare“.

According to Chirulli, the procedure on the construction sites has changed considerably. The social distance would have a strong impact on the behaviour of the employees among themselves, but also between employees, dealers and customers. Viti also confirms that the greatest attention is paid to individual safety measures in common areas. Any access controls would take longer. During the Corona period, meetings would mainly rely on solid communication platforms that would enable Vermeer to stay effectively in touch with dealers and customers via video call systems. Thanks to these platforms, online communication could have been effectively increased during the last peaks of the pandemic. Opportunities for more frequent contacts and training would have multiplied. At Anese SRL, 70% of meetings would also be handled via video conferencing and only 30% via face-to-face contacts.

Thanks to appropriate safety concepts, none of the employees in either company would have tested positive for Corona so far. Although great importance is attached to these concepts, it is not always easy to respect them all, especially since the employees still have a private life, explains Viti.

Participation in trade fairs and other similar events is not considered a significant activity in either company during this period. They restrict themselves to the essential daily business. The company Vermeer, for example, would only participate in online formats

Construction industry in the UK less affected by the pandemic



Scott Stone

The DCA representative for the UK and member of the board of the DCA Scott Stone of V&SH, on behalf of the DCA, has made enquiries to the new members on this issue. At the moment many areas in the UK would be approaching the end of the second lockdown and waiting to see what restrictions would be imposed next.

This raises the question for him and the DCA of how these restrictions have affected the HDD industry in the UK. While many industries would suffer from the pandemic, it appears the UK's construction industry is not one of them. The general feeling is that the construction industry flourishes in particularly around trenchless requirements. Although additional COVID-19 precautions are in place across drilling locations they are fortunate that due to working predominantly outside the knock on effects are minimal to many of their operatives. As we have seen many times there are always the larger schemes which get postponed for one reason or another but in general the future remains bright for our industry in particularly in challenging times, Stone said.

No economic aid from the Spanish State

The DCA representative for Spain Brian Jorgensen from the company Ditch Witch reports that Catalonia itself as well as Spain was hit quite hard by the first wave in spring.

He was able to conduct a short interview on this topic with the CEO, Isaac Iglesias, of the Catalan based drilling company and long time DCA member Catalana de Perforacions.

Asked how the company would cope during the pandemic, Iglesias said they are currently working on projects in Spain, the rest of Europe and Peru. During the first wave, they would have had to stop all their activities in Spain and France for weeks. Fortunately, three drilling teams working permanently with AT30 on fibre projects in Germany would have been able to continue without



Brian Jorgensen

interruption in spring, while the projects in Peru would have had to be put on hold. The country had been severely affected by the pandemic and the drilling crews from Catalana de Perforacions had not been able to enter the South American country for the time being.

On the question of the special measures to be taken during the pandemic, Iglesias says that they should have adapted quickly to the rules and restrictions that would change weekly throughout Europe. The drilling crews would be reorganised in such a way that personnel would not be mixed between the different crews and shifts. This would make their staff less flexible, and the crews would have to stay on longer shifts. In addition, face masks, hand disinfectants, PCR tests, etc. would be provided to the crews.

If a person tested positive, they would isolate and test the entire crew and repeat the PCR test after 10 days of quarantine, said Iglesias.

Jorgensen also asks how the virus would affect the company's costs. The longer shifts and quarantine would affect the result, reports Iglesias. Some of the additional costs of quarantine would be paid by the insurance, but Catalana de Perforacions would still carry a significant amount of the associated costs. Unfortunately, there would be no economic help from the Spanish State and their contract prices would remain the same. Fortunately, they would have good relations to their clients. They would understand and accept the few delays they would face in the projects due to the Covid 19 virus.

When asked about business development next year, Iglesias replies that their overall activities would have decreased by about 20% in the current year 2020. The activities in their mining division would even have decreased by about 50% as the mines would have to slow down their production due to the Covid-19 restrictions. However, they would expect an increase in electricity projects in 2021 and they anticipate an increase in projects financed by European funds. Their activities in fibre network installations were also foreseen to increase, but their growth was limited as it was difficult to find more qualified operators for HDD.

A. Quante, DCA

Focus on the European Idea

A mid-term review

In the course of his acceptance of office at the members' meeting in February 2019, President Jorn Stoelinga, LMR Drilling GmbH, pointed out that in particular the „European idea of the association“ should be focused even more strongly. Almost two years have passed since the announcement of the president, so that at this point an interim review on this topic shall be drawn.

- Has the DCA become more European?
- What activities has the association initiated to achieve this goal?
- What has changed in the meantime?

Before these questions are addressed, a brief review of the association's early years is given, with a special focus on the orientation of its activities. The following points will be examined more closely in this article:

- Was the European idea always the focus of the DCA or should it become a German association with a European flavour?
- Why was „German“ chosen as the language of the association and not „English“ as the European association?
- What is the situation in the association regarding the topic „European association“ today?

The aim of the founding fathers of the DCA was to give the association a solid legal basis from the very beginning. In the run-up to its foundation, there was therefore a discussion among the participants whether and how a European association could be formed (e.g. according to the EEIG European Economic Interest Grouping). In other words, which regulations are necessary for this and which key points would have to be fulfilled. Despite intensive legal support, the attempt to found a European association failed due to the „unclear European legal situation“ according to the protocol at that time.

As a result of the subsequent working sessions, it was therefore ultimately favoured to found an association according to the very strict German law on associations, in which „naturally European companies can become members“. However, the word „European“ is completely missing from the founding statutes and has not been included in the official version to this day. Something that should be made up for in the future.

With regard to the naming of the association, „DCCA Europe“ or „DCCA Germany“ was under discussion for a while. The abbreviation DCCA originated in the USA

from the „Directional Crossing Contractors Association (DCCA)“, which was founded in 1991 and has since been dissolved again.

At the founding meeting of the DCA on 01.12.1994 at Düsseldorf Airport, it was decided to use the German name „Verband Güteschutz Horizontalbohrungen e.V.“ For the founding fathers, the point „Güteschutz“ (German for quality protection/increase) in the name was particularly important. The newly founded association subsequently became a member of the American association DCCA and defined „German“ as the authoritative language of the association in its statutes. Why „German“ was chosen as the language of the association is no longer apparent from the founding documents. However, it can be assumed that this is due to the rules of German law on associations.



In the minutes of the first regular board meeting on 8 March 1995 in Frankfurt, the English name „Drilling Contractors Association (DCA)“ was then mentioned for the first time and the founding logo was presented on the business paper, which has become the trademark of the association to this day. A short time later, the French version of the association's name „Association des Entrepreneurs de Forage Dirigé“ followed.

These stipulations laid the foundations for the foundation of a European association under German law, the objectives of which were European from the outset, but which in many respects were significantly influenced by the German side.

The first DCA president was German, Claus Schmidt. The office and the management were installed in Germany, the members' meeting was first held in Bad Zwi-schenahn, later in Oldenburg and first training courses

were held at the Bohrmeisterschule Celle. And yet, from the very beginning there was a desire to operate on an international, European stage. A first visible sign was the publication of the first technical guideline in 1995 in two languages. The Technical Guideline is still the most important publication of the association and is now also available in French in the 4th edition.

Claus Schmidt was succeeded by Hans Ringers, a Dutchman, who set further important accents in the direction of a European orientation. From his term of office comes, among other things, the stipulation that the well attended annual congresses should take place in Germany and other European countries in annual rotation. This constant change of venues for the annual meeting has been a decisive factor in the establishment of a widely interlinked European network among the members in this still young industry. Ultimately, the „salt in the soup“ of the association’s activities to this day is the constant transnational interdisciplinary exchange of expertise and the personal contacts between many European members. In particular they strengthen the European idea of the association. Member companies from 12 European countries in the meantime bear witness to this.

Not much has changed in this basic European tenor over the past two decades. On the contrary, all correspondence, publications and information is now bilingual. The important events take place via simultaneous translation or in two linguistically separate rooms, and yet there have always been points in recent years which must have seemed alienating to European members. An annual congress in beautiful Cambridge in England, which had far more German-language lectures in its programme than the expected English-language contributions. Or evening events which are held exclusively in German. Here the DCA is on a very good way in the meantime to leave these „teething troubles“ behind and to put the „European idea of the association“ even more into the focus of the daily work.

However, one thing must be noted here. In the past, many of the DCA’s activities have increasingly taken place in Germany because essential work is often also developed and carried out by German members. The ex-president of the DCA, Hermann Lübbers, who unfortunately passed away much too early, made a decisive contribution to the fact that in Germany the training of personnel on the equipment, the certification of specialist companies and the development of a separate DIN for HDD was only made possible in the first place. His commitment has led, among other things, to the fact that the work of the DCA was perceived at the important institutions, even if initially only at national level. This truly magnificent commitment at the German level is not intended to diminish the commitment of the European members to HDD technology in the past, but rather to serve as an incentive to transfer the standards that the DCA has achieved in Germany over the past 10 years to other countries.

An essential step to make the DCA more European was the introduction of DCA representatives in Europe, which

was already done by Marc Schnau as President, initially for Spain and Italy. At the beginning of 2020 President Jorn Stoelinga was able to win Scott Stone as a further representative for the UK.

The task of the DCA representatives is to act as the association’s contact for the respective domestic HDD industry, to establish contacts and to communicate the association’s goals throughout Europe. Furthermore, the focus is on the support of the member companies and the recruitment of new members, both with the executing companies as well as with clients and in the supplier industry.

With Renzo Chirulli, Brian Jorgensen and Scott Stone, three well-known personalities in the HDD industry are committed to putting the European idea of the DCA on a broader European basis through their commitment, which is reflected not least in significantly increasing membership outside Germany. Another visible sign is, among other things, the fact that important events such as the DCA Members’ Forum will in future be held in two linguistically separate groups.



Last but not least, the 25th anniversary celebration of the Association in May this year was not without reason planned in the heart of Europe in Brussels. Unfortunately it had to be postponed due to corona.

All in all, it can be said that the European idea has always been in focus since the foundation of the DCA. Since Jorn Stoelinga took office and also during the times of his predecessor Marc Schnau, the course was deliberately set on „Europe“. Last but not least, the large number of new member companies from the UK, Italy, Sweden, Poland and Switzerland are proof of this

D. Quante, DCA

Membership development since 2015

Membership figures from Europe are rising steadily

As described in the article „DCA - Focus on the European idea – a mid term review“, this statement to make the DCA more European can also be seen in the current membership development of the DCA over the last 5 years, which will be examined in detail in the following.

The membership figures of the DCA currently show 50 regular and 78 associate members, i.e. a total of 128 member companies. This is the highest number of members since the founding of the association in 1994.

The share of German companies, which traditionally dominate the DCA, is around 64% for both regular and associate members. In retrospect, a total of 42 new member companies were admitted in the period under review from January 2015 to November 2020. 24 members, i.e. slightly more than half, still come from Germany. In contrast, 14 companies come from other European countries such as the UK, the Netherlands, Belgium, Poland, Lithuania, Switzerland and Sweden. Outside Europe, 4 companies from the USA, Canada and Brazil became members of the DCA during this period.

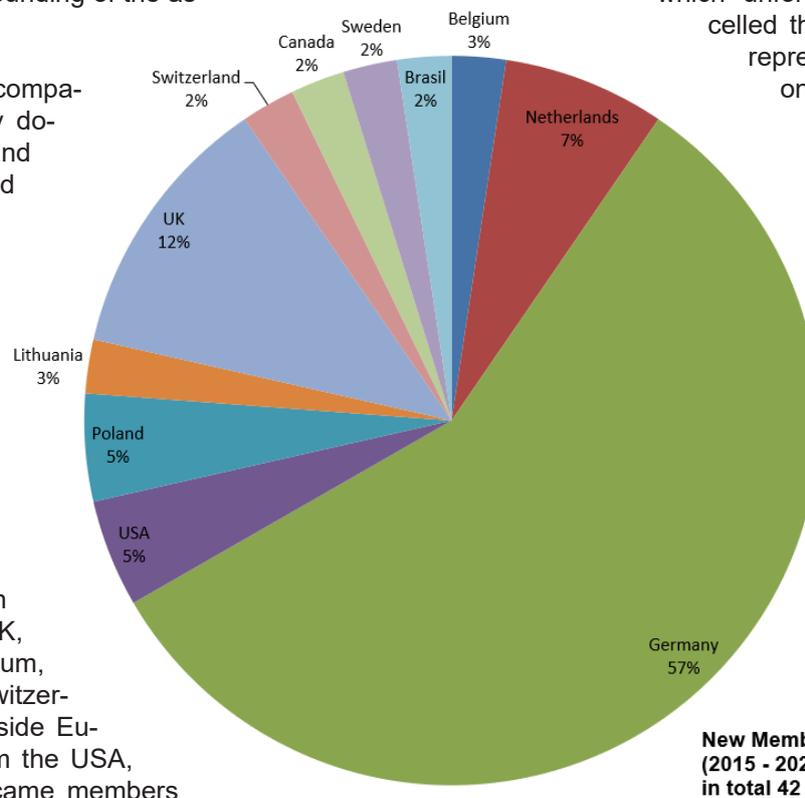
Due to the relatively high growth in recent years, the proportion of members from European countries and worldwide has risen significantly from less than 25% to 36%. Especially since the introduction of representatives for Spain, Italy and the UK, the proportion of regular members in Europe has been rising steadily. DCA representative Renzo Chirulli was able to win the first Italian HDD drilling company, Anese 2018, for the DCA. Member of the board and DCA-representative Scott Stone could even win five regular members from the UK for the DCA this year. And the trend is rising!

The number of „newcomers“ from Germany is still large with 24 companies in 5 years, which is also not least

due to the well-known activities of the DCA on the German market. The constant commitment of the board and members in the field of education and training in Germany, among other things, has led to many HDD drilling companies joining the DCA in recent times. This is also illustrated by the constantly high number of participants at the annual congresses, the member forums and also at events held jointly with the DVGW and the RBV. The

further education due to GW 329 in Kassel, which unfortunately had to be cancelled this year due to corona, is representative of the association's successful performance in Germany in recent years, with over 100 participants each year.

However, increasing membership figures in other European countries are also raising expectations of the association, not only among the current new member companies. These expectations must be fulfilled by the association in the next few years, so that the numerous new members can become active, long-term affiliated members.

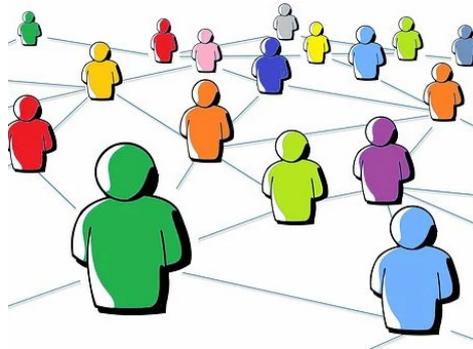


New Members (2015 - 2020) in total 42 Companies

There are many ideas and impulses in the board and from the members, which can only be implemented together. A first approach is the international DCA Members' Forum in January next year (corona-conditioned possibly in the first half of 2021). In addition, the editing of the 5th edition of the Technical Guidelines in three languages, but especially the working paper on the topic of „Coating quality“ recently prepared on a broad European basis, bear witness to European cooperation in the HDD industry under the auspices of the DCA.

Despite all the success, member companies have also left the association in recent years. 6 companies came from Germany, 2 each from France, the Netherlands and the USA and one each from Belgium, UK, Egypt, Austra

lia and China. Various reasons were given for the resignation. The main reason was not the work of the DCA but rather internal restructuring, insolvency or reorientation of the business.



Overall, it can be said that the benefits that can be gained from DCA membership also depend on the personal commitment of the contact person. To be a simple member of the DCA and to wait for results that others are working on is in most cases not enough to achieve your goals in the DCA. The tasks set in the individual member countries are too complex and different for that.

An active cooperation, regardless of whether as a regular or associate member, is in any case a good basis for a successful cooperation between the European member companies in the Association Güteschutz Horizontalbohrungen e.V., in the Drilling Contractors Association (DCA) or in the French version of the Association des Entrepreneurs de Forage Dirigé.

A. Quante, DCA



Verband Güteschutz Horizontalbohrungen e.V.
Drilling Contractors Association (DCA Europe)
Association des Entrepreneurs de Forage Dirigé

Further education according to GW329

Schlosshotel Wilhelmshöhe, Kassel

The event had to be cancelled. You will be informed about a new date for 2021 soon.



HDD-education in the Netherlands

The training courses announced for January 2021 unfortunately cannot take place due to the corona situation.

The courses will now take place as follows:

HDD course 1: Drilling rigs < 40 t

01.-05.03.2021 (for drillers)

HDD course 2: Drilling rigs > 40 t

08.-12.03.2021 (for drillers and site managers)



DCA homepage appears in a new outfit in 2021

Member area to be set up

Due to steadily rising infection figures in the Corona pandemic in Germany, Europe and worldwide, the current situation is extremely critical and it is not foreseeable how the situation will develop further. Despite the Corona crisis, the construction industry still seems to be in a good position, at least in Germany, and the outlook in the HDD sector looks rather positive.

With regard to the DCA and the range of services for members, however, it must be noted that due to the large number of cancellations of events, especially the annual congress and the anniversary celebration in Brussels, essential components of the association's work have unfortunately been neglected in the current business year. In addition to the professional component, there is also a lack of personal exchange and networking among the members.

Video conferences are good in principle, but they are no substitute for personal exchange. Nevertheless, the board strives to push ongoing projects such as the editing of the technical guidelines (5th edition) or the completion of the final report in the task group „coating quality“ as intensively as possible. We would like to take this opportunity to thank all those who have actively supported the association in its efforts to „constantly improve“ HDD technology during this very unusual period.

information, reports on the results of task groups and new publications etc. will be stored digitally in this area. After completion, members will receive corresponding access data, which can be replaced by personal data after initial registration.

Verband Güteschutz Horizontalbohrungen e.V. (DCA)

Der Verband Güteschutz Horizontalbohrungen e.V. (DCA) wurde am 01. Dezember 1994 von führenden Unternehmen der Horizontalbohrbranche als europäischer Verband gegründet. Das gesteuerte Horizontalbohrverfahren (Horizontal Directional Drilling, HDD) hat sich als technische und wirtschaftliche Alternative bei der Unterquerung von Hindernissen im Bereich der Leitungsverlegung weltweit durchgesetzt.

		
Arbeitskreis Umhüllung Die Bearbeitung im Arbeitskreis „Umhüllungen“ unter der Leitung von Vorstandsmitglied Marc Schnau schreitet stetig voran. Seit dem Sachstandsbericht im Juni-Newsletter haben wieder mehrere Meetings stattgefunden. Mehr erfahren	Mitgliederforum Das Mitgliederforum HDD-Technik findet im Januar 2021 in Aachen statt. Am 21.01.2021 findet das DCA-Mitgliederforum HDD-Technik nunmehr zum dritten Mal in Aachen statt. Nach der... Mehr erfahren	Technische Richtlinien Welcome to WordPress. This is your first post. Edit or delete it, then start writing! Mehr erfahren

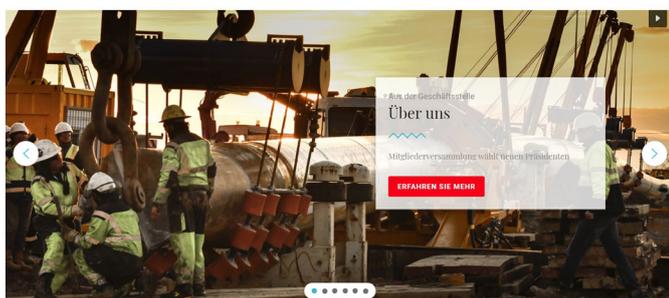
On the front end of the new site, the most important focal points of the DCA's work are also presented in the form of sliders with images and text. At this point, it is particularly important to the board that, in addition to large-scale drilling technology, there is also a stronger focus on small-scale drilling technology. In addition, there will be a separate area for current news on the homepage, which will also be structured textually and pictorially.

The completion of the new homepage is planned for the beginning of 2021. The members will be informed about the further procedure, in particular about the procedure regarding the members' area.

D. Quante, DCA



NEWS ÜBER UNS MITGLIEDER AUS- UND WEITERBILDUNG PUBLIKATIONEN KONTAKT MITGLIEDERBEREICH



Another important project has also been pushed since the middle of the year. Currently, the complete revision of the DCA homepage is underway, which is again being created in German and English. The aim of the fifth revision is to make the DCA website more informative and even more appealing. Besides the revision of the layout and the folder structure, the focus will be on a separate members' area. In future, all important documents, such as minutes records of the members' meeting, member

Certification according to DVGW worksheet GW302 GN2

Member of the board Marc Schnau in the expert group



CERT



In June, DCA member of the board Marc Schnau was accepted into the circle of experts at DVGW Cert GmbH for certification according to DVGW worksheet GW 302 GN 2 in Germany. In this function, he conducts audits of HDD companies on behalf of DVGW Cert GmbH to obtain or extend certification according to DVGW GW 302 GN 2 A/B, usually together with another expert. These audits include inspections of the company management system, an HDD construction site, the depot and a technical discussion with the responsible technical supervisory authority.

After Hermann Lübbers, the former DCA president of many years, who unfortunately passed away much too early, the DCA now has a new representative in this area of company certification in Germany. This provides the opportunity to maintain and intensify contacts with members and non-members of the DCA with regard to certification and regulation issues in Germany and to discuss relevant questions, points of criticism, need for action etc. in the DCA.

D. Quante, DCA



DVGW worksheets GW 302/321 (Germany)

DCA involved in revision



For some time now, the DVGW has been endeavouring to revise worksheet GW 302 (Qualification criteria for companies for trenchless laying and rehabilitation of pipelines not in operation) and to include the contents of the previous GW 320 series of worksheets, which describe and regulate the individual trenchless process technologies. Priority objectives for the revision have been so far to adapt the regulations to the state of the art, to reflect new developments, to take into account European standardisation projects and to reduce the number of worksheets.

After first drafts had been critically evaluated by some of the experts involved, the rbv (Rohrleitungsbauverband e.V.) revived the task group „Trenchless Construction Methods“ together with the GSTT (German Society for Trenchless Technology e.V.) and the RSV (Rohrleitungssanierungsverband e.V.) in order to develop an alternative draft.

In order to adequately and sufficiently consider the concerns of the HDD procedure from worksheet GW 321, the DCA will also participate in this work and has already appointed representatives with Mr. Roland Stutzki and Mr Thomas Winkler as representatives for the cooperation in the task group. This was expressly welcomed by the coordinator of the task group, Mr Hüttemann (rbv).

At present, the task group is still concentrating on the part of the new GW 302 which deals with rehabilitation procedures. As soon as the trenchless relining procedures will be continued, the DCA representatives will start their work. DCA member of the board Marc Schnau is in contact with Mr Hüttemann and coordinates the activities on the DCA side. He reports continuously in the board meetings and will continue to inform you about the status of the revision in the DCA newsletter and at the next Members' Meeting.

M. Schnau, DCA

Status report from the task groups

Digital sessions create security

Task group 2 „Coating quality“



The work in the task group „Coating quality“ under the leadership of member of the board Marc Schnau is progressing steadily.

Since the progress report in the June newsletter, several meetings have again taken place in the task group, most recently in early November. Almost all text modules for the final report are now available, some in German, some in English. In the meantime, a uniform form, i.e. a coherent document for both versions has been created in the office from the many individual aspects and processing statuses.



The chapters will then be successively translated into both languages. The completion of the report is planned for April 2021 in time for the Members' Meeting respectively.

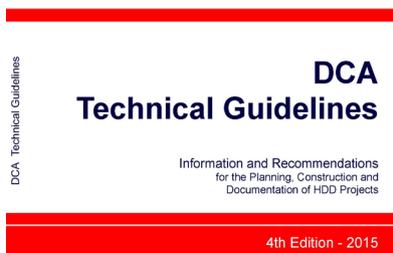
M. Schnau, DCA

Task group 3 „Revision of the Technical Guidelines“



In task group 3 „Revision of the Technical Guidelines“, the adaptation of the individual chapters of the guidelines, in particular of Chapter

10 „Categorisation of HDD wells“, is still in progress. In the meantime, Mr. Stone and Mr. Reinhard have comprehensively revised „Chapter 10“ as planned. The core of the revision was the adaptation of the topics specifically applicable to Germany in the English version, which is also to be updated. In addition, the categorisation for HDD drillings was reduced from three to two categories for test purposes.



Discussions on this topic are still in full swing, but are expected to be completed in early 2021.

In the meantime, the open issues in the overall document have been reviewed and a new working document has been prepared. This working document has been under final review by Mr Schnau and Mr Stoelinga since the beginning of October. The aim is to have the revised version of the German version of the Technical Guidelines also ready by the Members' Meeting.

E. Fengler, DCA

Task group 4 „Digitisation“



As described above, task group 4, „Digitisation“ started work at its first meeting at the end of last year. With the participation of rig manufacturers,

users and engineering offices, a DCA recommendation on this topic is to be worked out. The subject of the recommendation is not only a compilation of all relevant process data but also standards for their transmission and recording.

At the start of the task group, the participants discussed the state of the art and the expectations of users and manufacturers with regard to future developments.



In the last months - due to corona reasons - unfortunately no further meeting could take place. However, the members of the task group are to be contacted shortly in order to coordinate the further schedule in the task group.

Dr. T. Jaguttis, DCA

New DCA members introduce themselves

Brazil newly represented

HDSA - DrillTec Serviços de Perfuração

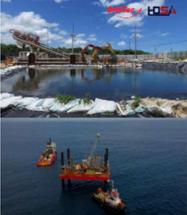


HDSA - DrillTec is a company specialized in horizontal directional drilling and has been developing works with a high degree of challenge and complex engineering solutions. The company is known for innovations in the development of new procedures for applying the directional drilling technique. Our brief history is built on the execution of relevant works in South America, where we maintain our field of activities and have 100% successes in all the projects we participated in, since the foundation, in February 2012.

Confident in its experience, HDSA-DrillTec is always prepared to new challenges. In South America, HDSA-DrillTec owns the position of leading company in horizontal directional drilling, specialized in different kinds of crossings, including shore approaches, roads, railroads, rivers and mountains.



Serra da Sapucaia – Mountain crossing/Brazil
 Client/Main client: Consórcio GTR-3/PETROBRAS
 Length: 755 m
 Pipe diameter: 22"
 Borehole diameter: 34"
 Product pipe: Carbon steel
 Geology: Rock/Gneiss
 Rig machine: 300t

Shore Approach Rota III – Shore Approach/Brasil
 Client/Main client: McDermott/PETROBRAS
 Length: 1050 m
 Pipe Diameter: 24"
 Borehole diameter: 34"
 Product pipe: Carbon steel
 Geology: Rock/Gneiss
 Rig machine: 300t/100t



HDSA-DrillTec aims at the implementation of projects based on its Integrated Management System, certified by ISO 9001: 2015 certificate No. BR033661, which guarantees that the commitment to Quality, Safety, Health and Environment is a common responsibility of all. In our work, we are focused on the continuous search for excellence. As proof of this, HDSA-DrillTec is part of the group that developed the international standards and technical recommendations for pipeline installation using HDD technology, **DNVGL-ST-F121 Pipeline installation using horizontal directional drilling.**

Most importantly, at this time, as a result of work performed, we are assuming the status of a regular member of the most important association of drilling performers in the world and we are very proud of that. We are convinced that the DCA seal ratifies the high level of quality that guides our company.



Rio Cashiriari – River Crossing/Peru
 Client/Main client: Conduto/PLUS PETROL
 Length: 550m
 Pipe diameter: 20" + 6"
 Borehole diameter: 30"
 Product pipe: Carbon steel
 Geology: Clay/Gravel
 Rig Machine: 100t




COMPERJ Emissary – Shore Approach/Brasil
 Client/Main client: Azevedo&Travassos/Petrobras
 Length: 975 m
 Pipe Diameter: 26"
 Borehole Diameter: 44"
 Product pipe: Carbon steel
 Geology: Clay/Sand
 Rig Machine: 300t/100t



Our primary objective is to plan and complete our works, always achieving the mutual satisfaction of our customers and employees.

Further information: www.drilltec-br.com

New DCA members introduce themselves

United Kingdom

GMAC Utilities Ltd



Gmac Utilities Ltd strive to offer clients a full turnkey service for their trenchless requirements and are proud to be members of the DCA.

Formed in Ireland in 2014, GMAC Utilities Ltd's owners bring over 30 years' experience in horizontal direction drilling and utilities infrastructure and support to the company. Working throughout the UK and Ireland, GMAC Utilities Ltd have been involved with some of the largest infrastructure projects in the land and continue to do so. They have assembled a dedicated team of experienced drillers and support staff, to ensure that they are always able to deliver the clients' projects on time, on budget, and safely.

Always ready to bring their team's expertise to a client, Gmac Utilities Ltd will assist from project inception to final delivery, with advice and clear communication along the way. Often working on challenging projects in difficult ground conditions, the Gmac Utilities Ltd team and fleet of equipment will always give 100%.

Constantly investing in new, and often bespoke, state-of-the-art equipment, the Gmac Utilities Ltd fleet of Ditchwitch and American Augers drilling rigs, range to in excess of 200 tonne with wireline and gyro steering systems at their disposal when needed. And it doesn't stop there, with Gmac Plant Hire Ltd providing equipment back-up, Gmac Utilities Ltd have all the plant they need on call, without the need for third party suppliers.



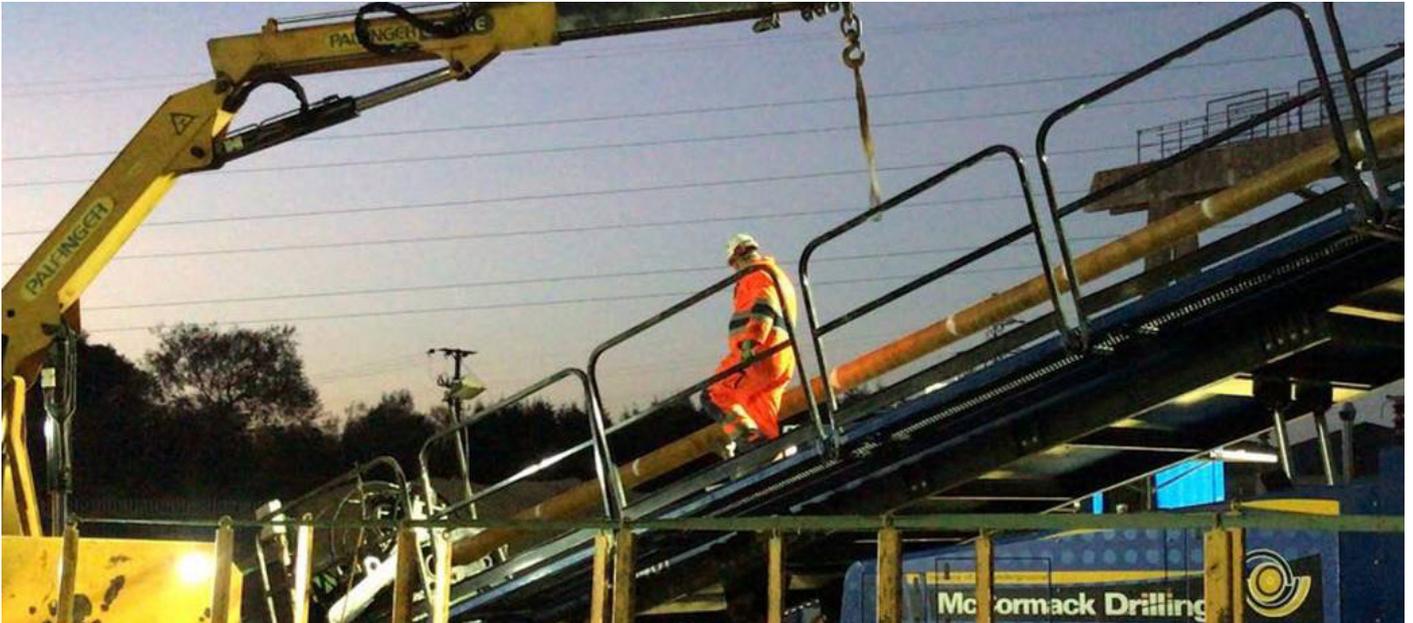
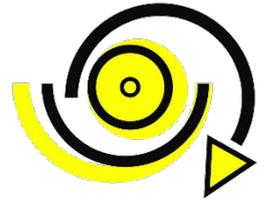
In addition to horizontal directional drilling services, Gmac Utilities Ltd's constant investments means they can also offer vacuum excavation services, shaft sinking, guided auger boring, thermo fusion pipe welding, and timber heading and pipe jacking services. This ensures that no matter the complexity of a client's project, Gmac Utilities Ltd have the skills and means at their disposal to complete the project.

Having worked under every conceivable surface from highly sensitive marshes and rivers through to runways and rail mainlines, Gmac Utilities Ltd are ready for any challenge.

Always building on their list of accreditations, Gmac Utilities Ltd are currently accredited to ISO 9001, ISO 14001, ISO 45001, OHAS 18001, as well as being Achilles UVDB qualified and accredited and, are Constructionline Gold members. With a proactive approach to health and safety, they have maintained a zero accident record for over three years.

Visit www.gmacutilities.com to learn more and see how we can provide your trenchless requirements.

**PETER MC CORMACK & SONS LIMITED
DIRECTIONAL DRILLING & UTILITY CONTRACTORS**



Specialists in ground-breaking trenchless solutions

Founded over 50 years ago Peter McCormack & Sons has become one of the UK & Ireland's largest installers of trenchless technology whilst also providing turnkey utility services. Investing in people, skills and technology allows us to provide an unparalleled service to our clients.



- Directional Drilling
- Auger Boring
- Vacuum Excavation
- Utilities
- Design

mccormackdrilling.com



**PETER MC CORMACK & SONS LIMITED
DIRECTIONAL DRILLING & UTILITY CONTRACTORS**

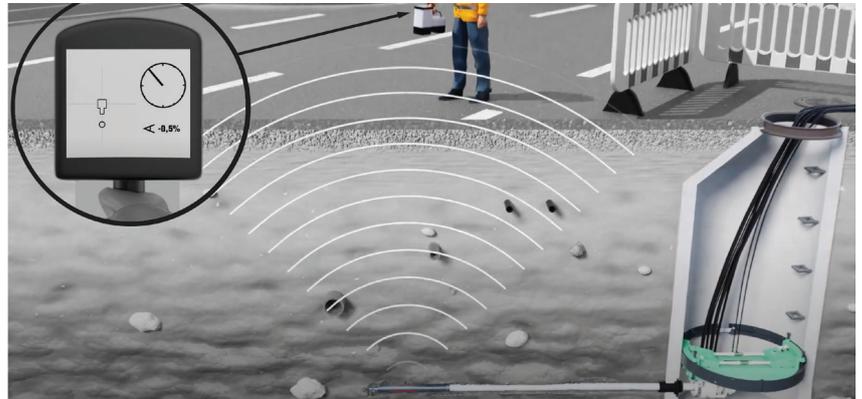
New DCA members introduce themselves

Poland



MIDO Sp.z o.o. was established in the early 90s from J. Brylowski, pushed by an idea to find a solution for problems by working with ground rockets. The Target was to develop a machine that could do precise drilling work from Start manhole to target manhole.

The Gravity Drilling Technology was born!



Our Benefits:

- Slight Measurements (Manholes DN1000/1200/1500-2000/Rectangular)
- Assembly through a manhole cover DN600 – Fast assembly guaranteed
- Dual Drive for all Soil Condition Classes: II, III, IV, V (Sand, gravel, clay, up to medium rocks)
- Guaranteed fall precision (0.2%), Pilot drilling with radio location system
- Drilling a Canal very close to the surface, under the manhole cover even with groundwater (no drainage necessary)
- Working in manholes with poor Stability
- Blocking of Sewage water / Water is not necessary
- Existing & damaged sewer systems even blockages can be removed or replaced

Our Technology works without destroying existing infrastructure and space, without excavation, quickly, economically and consistently. We are able to drill in all Soil conditions (Classes: 2-5), even with groundwater. With the help of a radio location system, we guarantee a precision fall of up to 0.2%.

Our Services among others:

- Sewer construction Systems
- New and existing Sewer systems
- Through Holes
- Drilling from manhole to manhole (Shaft to Shaft)
- Connecting existing sewer systems
- Work on water shafts
- Revisions of damaged Sewers
- Main sewer Connections

Our Solution is necessary wherever trenchless intervention is indispensable, such as in densely populated urban areas, historic city centers, busy streets, motorways / expressways, Main Sewer Connections for example: new building a.s.o

Mido Sp.zoo has been part of the Terma Sp.zoo Group since 2017, founded in 1990 by E. Brylowski. As a family company, Terma Sp.zoo produces our technology at the highest level.



New DCA members introduce themselves

Germany

TransnetBW



The energy landscape is changing rapidly. Just a few years ago, electricity was being consumed an average of 80 kilometres from the place where it was generated. Today, distances between electricity generation and consumption can be as short as a matter of metres. One example would be decentralised electricity generation involving photovoltaics on the roof. With 800 kilometres between generation and consumption, the large-scale distribution of wind power from the northern coast to the south of Germany is a different kind of challenge. This is why TransnetBW is working towards an electricity transmission grid that is fast, secure and flexible. And this is where SuedLink comes in.

It's clear that secure electricity grids are the prerequisite for a reliable energy supply and, more broadly, for a functioning economy and society. As a transmission system operator, TransnetBW is responsible for the operation, maintenance, planning and expansion of the transmission grid. TransnetBW's extra-high voltage lines, at 220 and 380 kV, cover an area of 34,600 square kilometres and are over 3,400 km long. The company thus serves 11 million people in the southern federal state of Baden-Württemberg and ensures that this economic powerhouse stays up and running.



Figure 1:
TransnetBW's system control centre in Wendlingen
(Copyright: Heiko Simayer, photographer)

The lines are connected to the downstream 110 kV distribution grid via 80 transformers. TransnetBW brings the energy from generation to destination and integrates the renewable energies into the supply system in the process. Integration into the interconnected national and European grid is ensured by 35 interconnection points. Meanwhile, TransnetBW's control area is directly connected to the neighbouring transmission grids in Germany, France, Austria and Switzerland.

In addition to operating the grid, TransnetBW is responsible for balancing the supply and demand of electricity. To this end, the transmission system operator markets renewably generated electricity on the energy exchanges and balances generation and consumption every minute by procuring balancing energy on the market. With its head office in Stuttgart, the system control centre in Wendlingen am Neckar and several operating points across the region, a secure and reliable electricity supply is delivered in Baden-Württemberg.

TransnetBW GmbH was launched in March 2012, when the former EnBW Transportnetze AG - founded in 1998 - was spun off into an independent company. At this stage, the Baden-Württemberg-based energy supplier EnBW followed the requirements of the European Commission for the unbundling of the energy market. The aim was the independence of the transmission system operators and strengthening competition. Within the past four years, the number of employees has risen from just under 340 to 675 today - another sign of growth and economic success.



Figure 2:
TransnetBW corporate headquarters Stuttgart (Copyright: Heiko Simayer, photographer)

TransnetBW GmbH

Pariser Platz

Osloer Str. 15-17

70173 Stuttgart, Germany

+49 711 21858-0 // info@transnetbw.de

www.transnetbw.de

Members' Forum HDD-technology will take place 2021 in Aachen

Topic „soil investigations“, bilingual

The Members' Forum HDD-Technology will take place for the third time in 2021 in Aachen. Depending on the pandemic situation the event will take place later in 2021. After the kick-off event at the beginning of 2018 at DCA member Open Grid-Europe in Essen on the subject of „HDD-Trouble Shooting“, this time the association will focus on the subject of „subsoil investigations“. This year the HDD workshop will take place for the first time in two linguistically separate groups.

For the application of HDD technology, precise information on the subsoil on the basis of qualified soil investigations in the route area is always required in order to be able to reliably assess the feasibility of a project and reduce the subsoil risk to a minimum. In order to obtain this information, targeted soil investigations by the client are necessary.



The planning of the required investigations, the professional supervision of the field and laboratory work and the preparation of a geotechnical investigation report (subsoil expertise) must be carried out by a qualified subsoil expert with relevant knowledge and experience of the working methods and special features of HDD technology. The subsoil expertise should also specifically address the specific technical aspects of the building ground in connection with the use of the HDD technique in order to enable an assessment of the drillability of the soil layers encountered.

The aim of the HDD workshop „Soil Investigations“ is to firstly examine and evaluate the HDD-specific geotechnical parameters and terminology used in a soil expertise. Furthermore, it will be discussed which minimum requirements have to be met and which parameters are advantageous for which conditions. The workshop is primarily aimed at decision-makers, project and site managers, technical supervisors as well as planners and clients of DCA member companies, but is also open to foremen and HDD drilling equipment operators trained according to GW 329 (Germany). Participation in the event is free of charge and exclusively reserved for DCA member companies.



Topics of the workshop:

„Soil investigation“ - Which parameters are necessary for HDD, which requirements arise for the drilling?

Discussion points:

- Which exploration methods are available, how are they applied, which methods for sampling in situ are available?
- Which laboratory investigations/analyses are carried out?
- What statements do the determined parameters provide?
- What influence do the data have on the planning of the drilling?
- What are the minimum requirements for soil investigations?
- What is the overall opinion on the subsoil?
- Dealing with „special features“ in the subsoil (swellable clays, abrasiveness in solid rock, karst phenomena)

Workshop Podium:

Dr. Tim Jaguttis, Vice-President of the DCA
de la Motte & Partner Ingenieurgesellschaft mbH

François Gandard
Optimum

Henk Kruse
Deltares

Depending on the current Corona situation and the registration situation in December, the board reserves the right to postpone the event, which was planned for 21 January 2021, to a later date in 2021.

A. Quante, DCA

Previews

Seminars and courses

Training courses according to Worksheet GW 329 in Celle

The training courses for specialist supervision, for site supervisor and equipment operators for horizontal mud drilling according to DVGW Code of Practice GW329 will take place in 2021 at the Bohrmeisterschule Celle in cooperation with the DCA and Rohrleitungsbauverband rbv.



Below we have listed the corresponding courses for you:.

A: Drilling rigs ≤ 400 kN Rückzugskraft
B: Drilling rigs > 400 kN Rückzugskraft

1.1.1 Skilled Supervisor (A/B) for horizontal mud drilling method according to DVGW Worksheet GW 329

Topography and geology, drilling fluids, drill string, tools, locating methods, raw materials, regulations, work safety

A: 11.01. - 15.01.2021
B: 11.01. - 03.02.2021.

1.1.2 Site Manager (A/B) for horizontal mud drilling method according to DVG Worksheet GW 329

Basic knowledge, topography, existing plants, soil parameters, drilling fluids and bore hydraulic systems, drilling rods, drilling tools, pipe coatings, pipe materials

A: 11.01. - 22.01.2021
B: 11.01. - 04.02.2021

1.1.3 Maschine Operator (A/B) for horizontal mud drilling method according to DVG Worksheet GW 329

Mathematics, physics, structure and effect of horizontal drilling rigs, project basics, project implementation, drilling mud, mud circuit, mud pumps

A: 18.01. - 29.01.2021
B: 18.01. - 04.02.2021

If you have any questions, please contact the DCA office.

Registration: via Berufsförderungswerk des Rohrleitungsbauverbandes (www.brbv.de)

Info: DCA members pay a reduced participation fee

After consultation with the head of the Bohrmeisterschule Celle, Mr. Grossmann, the training courses can probably take place. If necessary, we will switch to online training.

Previews 2021

Seminars and courses

„Specialist for mud technology for HDD construction measures“

Seminar as a further training measure for handling drilling fluids on HDD construction sites, including laboratory-based practical training at the Bohrmeisterschule Celle, in February 2021

In order to make the horizontal drilling technique perceivable to the public as an environmentally friendly technology, it is necessary to counteract any suspicion of environmental damage. The handling of drilling fluids on HDD construction sites is of central importance in this regard. Of course, the successful completion of an HDD drilling project also depends on the safe handling of the drilling fluid. It can be stated that the proof of harmless mud products alone is not sufficient for both of the above mentioned objectives. Rather, a certificate of competence of expertly trained personnel is also necessary. In the courses according to DVGW GW 329 (Germany), only the basics of HDD drilling fluids are taught to equipment operators, site managers and technical supervision. This knowledge is also available from various planning offices and clients. This has led to the fact that more and more drilling companies are being considered in tenders, which can provide proof of the personnel's special expertise in handling HDD drilling fluids.

In cooperation with the Bohrmeisterschule Celle, the DCA has developed a training concept which gives equipment operators and site managers the opportunity to develop further as „Specialist for Mud technology for HDD construction measures“ as part of a further training measure. The programme contents are coordinated in close cooperation between the DCA and the Bohrmeisterschule Celle and adapted to the requirements of practice. At this point, however, it should be pointed out once again that this measure is not intended to compete with the proven services of the companies from the mud service. Rather, it is intended to increase the skills of the drilling rig personnel so that the handling of the drilling mud visibly contributes to quality assurance, troubleshooting and fault clearance of the HDD well.

The mud technology seminar at the Bohrmeisterschule Celle consists of 10 topic blocks and focuses on the participants' practical understanding. Besides the theoretical part, the seminar focuses on the practical part with exercises in the laboratory. HDD mud samples and recipes for different soil layers are used. Suitable measuring instruments on HDD construction sites are used in the laboratory and the new requirements for DVGW Worksheet W116 are also taken into account.

The following parameters for an „optimal“ HDD drilling mud are worked out in the seminar for different soil layers and documented in the mud report:

- Mixing water and conditioning: pH value, water hardness, salt content
- Discharge of cuttings from the annular space: PV, SV, AZ
- Keeping the cuttings in suspension: RAZ/AZ, 10 s and 10 min gel thickness
- clay inhibition: WAZ, additives
- Solid matter control: density measurement
- drill hole stability: filter cake texture and - thickness, wv-value
- External disturbances: Effect of additives, polymers
- Influence of the pressure difference in the annular space for blowers
- Environmental aspects and quality: SDS, BA, protocols, recycling, disposal

In the group the laboratory results are evaluated and discussed. Practical examples of drilling fluids in loose rock with alternating layers of gravel-sand-clay are discussed as well as drilling fluids for hard rock. At the final knowledge review the participants can prove that they have deepened their knowledge of mud technology. After the evaluation of the participant survey as well as the experience of the instructors employed, the course content is appropriate to the requirements of the participants. As a conclusion, it can be stated that the further training measure for the development of employees as „Specialist for mud technology for HDD construction measures“ means an improvement of the quality for the production of HDD drillings.

Registrations at Regina Heims:

office@bohrmeisterschule.de



BOHRMEISTERSCHULE CELLE
Staatlich anerkannte Fachschule
für Bohr-, Förder- und Rohrleitungstechnik



Dr. U. Grossmann, Bohrmeisterschule Celle
Dipl. Ing. M. Schnau, DCA

Previews 2021

DCA - Members' Meeting



**According to current planning,
the Members' Meeting of the Drilling Contractors Association will take place on
Wednesday, 14 April 2021, at 15.00 in Oldenburg
at the hotel Wöbken.**

Members will be sent an official invitation and an agenda for the event on time. As last year, simultaneous translation (de/en) will be provided at the event.

Corona note:

Depending on the corona situation in spring 2021, the board reserves the right to hold the event digitally if necessary or to postpone it to a later date. All members will be informed of the procedure on time.

For further information please 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

35th Oldenburg Pipe Forum 2021 (IRO) - date moved to 2022

The Oldenburg Pipe Forum 2021, which was supposed to take place in April 2021 in the Weser-Ems Halls, has unfortunately been cancelled in the meantime. The Lower Saxony state parliament and the city of Oldenburg intend to use the halls as a vaccination centre. The 35th Oldenburg Pipe Forum will now take place from 27 to 28 January 2022 as the industry's annual kick-off event.



For more information: www.iro-online.de



Verband Güteschutz Horizontalbohrungen e.V.
Drilling Contractors Association (DCA Europe)
Association des Entrepreneurs de Forage Dririgé

 Charlottenburger Allee 39
52068 Aachen

 www.dca-europe.org
dca@dca-europe.org

 Tel.: +49 241 90 19 - 290
Fax: +49 241 90 19 - 299