



Issue 20  
August 2003

# NEWS

The latest information for all employees and friends of the Naue Faser-technik Group



## Introduction

We are presenting you the 20th edition of our Naue News to inform staff members and friends of Naue Fasertechnik Corporate Group. In these 20 editions, we have been reporting about current events in the company, about staff members, tasks and activities at our locations and in our subsidiaries, about sites and the application of our products, about new developments, about staff and even their families as well as news from the line of business. Three or four times a year, the editor's team is quite busy before the next edition is published: collecting information, writing texts and providing photographs, developing and implementing layout/ideas, trans-

lating texts into English and so on.... At this point, we would like to extend our gratitude to the staff members who has so far been involved in working on the 20 editions of Naue News.

Once again, we provide the latest news: the further extension of our sales organization, a great new product development - Combigrid New, a new joint venture in South Africa and applications of our products - everything great, everything perfect?

It is the first time that Naue Fasertechnik made commitments in a low-wage country when contracting a joint venture in South Africa. It is a country where e. g. wages are considerably lower and where raw materials can be purchased at extremely low-budget prices compared to Germany. It is a country with the lowest electricity prices in the world and now with products that are competitive to products from all regions of the "globalized" world. We are sure that this

decision contributes to safeguard the corporate's future as well as to maintain our jobs in Europe. However, the described boundary conditions show as well the requirements for our productivity in Germany that we have to document and to meet in order to be able to maintain our standard of living in the future. During a strike in the new federal states, the metal union (IG Metall) demanded to reduce working hours to 35 hours per week and failed. This shows clearly that we have to work more, not less to keep up our standard. However work will be distributed in Germany, manpower has to become cheaper to create more work. This is valid in general for the whole economy and in particular for the Naue Fasertechnik Corporate Group.

We are awaiting more challenges in this year 2003 - let's keep up fighting to achieve the goals that we have set in 2003. ■



Naue members of the sales meeting in May 2003



## Corporate group

### New office in Prague

At the beginning of 2003, our export department for the Czech Republic and Slovak Republic has been strengthened by Hana Rouskova. She is operating from her office in Prague and her task is to maintain existing and develop further sales activities that have been established by Rafal Ciesielski in the last years. Mrs.

Rouskova is supported from the office in Lemförde, by Mrs. Annette Meschede.

The sales activities in both countries include the complete range of products in accordance with the approved motto "All in one hand". However, the actual main activities center on the sections landfill, tunnel and road construction.

In May, Mrs. Rouskova successfully represented our company with a booth at the annual road construction fair "Roadware" where she made new contacts.

As a result of the vote of the Czech Republic in favour of the EU, we hope that the market will open up further, especially for geosynthetics. ■



### Since 1st January 2003 new Naue office in Ankara, Turkey

In May 1996, Naue Fasertechnik GmbH & Co. KG started its cooperation with Mr. Esat Naci Or. At that time already, the main activities have centered on the marketing of Bentofix® geosynthetic

clay liners and Carbofol® geomembranes in landfill construction. In 1998, Naue Fasertechnik was an established figure in this application section on the market as a result of these activities. Since 2000, the market activities have particularly been increased in road construction and since 2003 intensively in the canal and tunnel construction.

In January 2003, Mr. Or entered into the sales team Southeast-Europe of Naue Fasertechnik as representative for the sales region Turkey. This step shall consolidate the market position in the future and make the Naue geosynthetic product range better known in Turkey. ■

### South Africa

It is on record since 3rd April 2003: Naue Fasertechnik is a 50% partner of Anchor Lining Systems in South Africa. Together with Peter Dimaio and Du Toit Viljoen, we founded a joint venture whose activities are focused on the production and sale of 3 m wide concrete protection liners consisting of HDPE liners with studs. For this purpose, a production facility was purchased in Cape Town near the famous Table Mountain.

The necessary production equipment - a stud roller and a pincher machinery - was available in South Africa. Naue Fasertechnik owned a flat extrusion line at Tönisberg that suited to the stud roller with regard to width and technical data. Once Naue had decided in favour of the joint venture, a team in Tönisberg was charged to dismantle, pack and dispatch the plant for transportation by ship from Rotterdam to Cape Town as soon as possible. At its arrival,

and emphasizes one more time the technical know-how and commitment of the production team in Tönisberg.

Vera Olischläger was charged to set up a laboratory to ensure the high-standard quality of the products. In a short time, the required testing equipment could be mounted. In addition, a process ensuring high product quality was developed together with Jennifer Botha.

Joint-Venture-building of the Anchor Lining Systems, South Africa



Ralf Bingel, Lothar Knothe, Erik Naujoks and Celal Besir arranged the quick set-up of the production plant and trained the South African production staff. The whole operation did not take more than 5 weeks (including 2 weeks shipping transport)

Now 23 persons are working at the location in South Africa from where the products are sold to Africa, South-America, Asia and Australia. Naue Fasertechnik extends its gratitude to all staff members who contributed to the set-up of the joint venture and wishes the team a successful future. It may become our "Star of Africa". ■



### Projects

#### RiStWag-application of the by-pass road Langelshelm P. Pfannenschmidt, VI

When constructing or extending new roads, the responsible designers and contractors are increasingly faced by the task of preventing soil contamination. Therefore, measures for the protection of the groundwater are necessary in more and more cases. The corresponding requirements and specifications for such measurements are regulated in the "guide-line for constructional measurements of roads in water protection areas" (RiStWag, edition 2002) in Germany. Besides the constructional specifications for building materials and methods and the constructive design of the various road areas, special attention is paid to reliability and security of barrier systems. These

systems have the task to protect the underground and the groundwater by retaining contaminating substances from road traffic. In more and more cases, experts refer to the application of geosynthetics considering practical and economic aspects in building construction. These future materials do not only hold off unwanted residues, they also provide high performance and low costs, they are easy to handle and ensure high validity and security. Therefore, Carbofol® geomembranes and Bentofix® geosynthetic clay liners are increasingly used in road construction. The construction planning of the new by-pass road B 82n from Goslar to the highway A7 also required a groundwater protection measure. In the area of the village Astfeld, area Herzog Julius Hütte, the planned road leads across a 250 m long and 500 years old waste

dump. The bottom soil layers consist of smelter slag and were considered as contaminated. The official plan approval for the road B 82n stipulated a sealing in order to prevent surface water to penetrate and washing out pollutants into the groundwater.



Considering various solutions, the regulators finally decided to install a GCL (geosynthetic clay liner) as sealing element. According to the calculations of the design office BBU in Braunschweig and the Bauberatung



## Schedule of shows and conferences, 3rd and 4th quarter 2003

### August

25.-28.08.03 XIIIth European Conference on Soil Mechanics and Geotechnical Engineering, Prag

### September

17./18.09.03 HTG - Kongress, Stuttgart

### October

08./09.10.03 1. Nationales Symposium für Umweltgeotechnik, Weimar

### November

13./14.11.03 XIV. Sächsisches Altlasten-kolloquium, Dresden

24.-27.11.03 acqua alta, Hochwasserschutz, Katastrophenmanagement, Klima, Flussbau, München

Geokunststoffe (BBG) of Lemförde (construction consultant for geosynthetics), the application of a geosynthetic drainage mat above the GCL was recommended thus preventing water pressure build-up and the reduction of soil strength. Additionally, a geogrid with high strength junctions was placed in several slope areas allowing a steeper and low-cost construction.

As a result of detailed tests, the GCL Bentofix® BFG 5000, the drainage mat Secudrän® R 201 WD 601 R 201 and the geogrid® 200/40 R6 and 300/40 R6 from Naue Fasertechnik

GmbH & Co. KG were chosen as the geosynthetic elements.

The result is convincing: The regulators have highly been satisfied about the planning and the performance of the project as well as about the quality of the applied materials. On behalf of the city council, another project simultaneously started (the sealing of a boundary dam in the border area of the road B 82n) according to the regulations of RiStWag and using the products of Naue Fasertechnik. ■

### Manhole repair with high density polyethylene

Penetrating and escaping water can lead to expensive damages in manhole structures. Pumping and purification is cost intensive and wastes a lot of energy.

For many years now, the Carbofix® concrete protection liners have successfully been used in the chemical, pharmaceutical and metalworking industries for lining and sealing sewer pipes, sewer structures and retention basins for the purification and landfill liquids.

A synthetic system patented by Schacht + Trumme is based on a modular conception with HDPE elements. They match together but can also be used individually such that repair can easily be limited to

the damaged part of a concerned manhole thus providing an efficient and economic solution.

High density polyethylene (HDPE) as base material for the components offers various advantages such as the easy and quick weld ability. Electronic tests and documentation on site of all welded seams ensure that they are tight and impervious. The premanufactured and flexible components such as the half-pipe channel can easily be placed through the manhole cover opening. The wall elements are available as single parts per metre and can be adjusted on site thus reducing considerably time and money for installation. Project-specific and impervious

parts serving as connection to the pipe system can be installed in already repaired pipes manufactured from HDPE or other material.



Sewer manhole lined with Carbofix® and the modular connection.

Therefore a complete, economic system for lining manhole structures against penetrating and escaping water as well as optimal corrosion protection can be made with Carbofix® concrete protection liners. ■

## Products

### COMBIGRID®- saves costs and provides more security

The Naue Fasertechnik Corporate Group presents its new reinforcement product Combigrid®. N E W means higher security both in the use for reinforcement and for separation and filter functions.

A new innovative production technique allows us to combine the advantages of the soil reinforcement geogrid Secugrid® and the separation and filter nonwoven geotextile Secutex® to Combigrid®.

Two approved Naue products now form a composite geosynthetic with



Installation of Combigrid®, bus-station, Melle/Wellingholzhausen.

outstanding properties for reinforcement, filtration and separation. Combigrid® is applied in temporary construction roads and under roads. It reinforces retaining walls and

trench covers and stabilizes soils exhibiting poor bearing capacity.

Dr.-Ing. Georg Heerten, Managing Director of Naue Fasertechnik Corporate Group, was quoted as saying: "Besides the technical performance of our designing engineers, I'm pleased about the high cost savings that our new product Combigrid® offers to the market and the building industry." ■



## Staff News

Since the last issue of the "Naue News" there have been the following changes in the group:

Name	Company/location	Dept.	Function	Date
<i>New colleagues</i>				
Mr. Tianhong Zhang	NFT, China	VE	VSB	01.05.2003
Ms. Verena Ensemeier	NFT, Lübbecke		Trainee	01.08.2003
Mr. Markus Pönnighaus	NFT, Lübbecke		Trainee	01.08.2003
Mr. André Weßling	NFT, Lemförde	VE	VSB	01.08.2003
Mr. Konrad Rola-Wawrzecki	Geosyntetyki, Naue, Polen		VSB	01.06.2003
Mr. Michal Rychcik	Geosyntetyki, Naue, Polen		VSB	01.06.2003
Ms. Helen Cavanagh	Naue Geosynthetics, U.K.		VSB	21.07.2003
Ms. Julia Bury	Naue Geosynthetics, U.K.		VSB	04.08.2003
<i>Personal leaving the company</i>				
Mr. Marco Demontis	Naue Geosystems, Italien		VSB	30.04.2003
Mr. Gerard Mason	Naue Geosynthetics, U.K.		VSB	11.04.2003
Mr. Hans-Joachim Harloff	NFT, Lübbecke	Management	VSB	31.05.2003
Ms. Gabriele Sprick	NFT, Fiestel	Management	Human resource	31.07.2003
<i>Changes in staff</i>				
Ms. Lena Hagemeyer	NFT, Lübbecke	VH	SB	11.07.2003

VE: sales export, VI: sales Germany, VSB: sales engineer, SB: clerk, VH: sales distributors, Germany



## Have you already heard...?

### 40 year's service at Naue

Mr. Reinhold Busse celebrated his anniversary of 40 year's service at Naue Fasertechnik on 14th May 2003 in Eselkamp-Fiestel.

Reinhold Busse, born on 07th January 1939, started his career as a fitter in the company's fitter's department, at that time Naue KG, on 14th May 1963. Since he passed the examination for master craftsman's certificate on 20th August 1971, he is head of the fitter's department Fiestel. In March 1981, he was nominated as safety officer. He attended extensive trainings and was appointed as the trained assistant for operational safety for the locations Lübbecke, Fiestel and Lemförde in May 1984. Mr. Busse has contributed to the development of our location in Adorf (Plauen) where we produce geogrids for reinforcement, drainage mats for drainage and nonwovens for separation, filtration and protection. Mr. Busse will go into a deserved retirement at the end of this year.

### Mailing evaluation of the 3rd geosynthetic colloquium

As already reported in the last issue of Naue News, our 3rd colloquium in January was a great success and attracted many participants interested in geosynthetics. In addition, all the external participants received an evaluation sheet asking for their opinion about their overall impression, the topics and their expectations.

Result? We passed the exam! The overall impression was excellent, the topics and the expectations were evaluated as very good. Critical remarks such as the clash with the KGEO symposium and the lack of main topics encourage us to improve further events. However, we were very pleased about statements such as "I did not expect such a commitment from Naue Fasertechnik and its staff members" or "The broad range of lectures, presentations and literature offered many answers to questions about innovations and state-of-the-art practices." This shows once again that our geosynthetic colloquium is an important event offering independent and practical opportunities to exchange information.

### Naue News online

Did you know that you can read the Naue News online ([www.naue.com](http://www.naue.com)) or download the pdf-file?

### Safe and economical sealing for old landfills

According to the "task group groundwater protection", approximately 250 old landfills have to be closed in Germany by mid of 2005 as per deposition decree of the federal ministry for environment on the 01st March 2001. Exceptions for the sealing of old landfills in § 14, paragraph 6 of the landfill decree enables the responsible authorities to permit new and safe economical alternative solutions. However, this is only valid if the deposition phase will have been finished by 15 July 2003.

The current ex-

pert's opinion of the BAM (Federal Institute for Material Research and Testing) supports the suitability of HDPE liners acting as old landfill capping systems. This expert's opinion has been assigned to the BAM by the task group groundwater protection (AK GWS Arbeitskreis Grundwasserschutz e.V.) to discuss the effects on landfill capping systems comparing the properties of HDPE geomembranes. Special attention is drawn to the resistance, the long-term performance, the compactness and the deformation behaviour of this sealing system as well as the requirements for the installation of such a sealing. It proves that landfill surfaces can be sealed with HDPE liners providing stability, high quality and an economical alternative solution. If you need more information, please send an e-mail to [arux@naue.com](mailto:arux@naue.com).

### "Hydraulic Engineering" in english

The application brochure "Hydraulic Engineering" is available since July.

### Congratulations

Ms. Lena Hagemeyer has successfully passed her exam for commercial assistant. Congratulations! Ms. Hagemeyer will continue to work for us in the sales department German distributors and Switzerland. ■

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