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TU & YOU News September 2018

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HAMBURG INNOVATION PORT FOUNDATION STONE LAID



Photo: MVRDV

On June 18, 2018 the foundation stone of the Hamburg Innovation Port was laid in Harburg's Inner Harbor. On the 20,000-square-meter Blohmstrasse site around 60,000 square meters of

gross floor area is to be built in several stages to accommodate over 2,500 jobs and the expansion that has been agreed for the Hamburg University of Technology (TUHH). The innovation park—developed, financed and managed by HC Hagemann—is also to facilitate networking of business and science and provide the best prerequisites for establishing a vibrant company founder and business startup scene.

“In the Hamburg Innovation Port,” said TUHH President Prof. Dr. Ed Brinksma, “the Hamburg University of Technology can implement its growth plans in ideal conditions. The unique environment, with non-university research institutions like the DLR or the Fraunhofer Center for Maritime Logistics and Services (CML), TUTECH, local companies and startups, will enable us all to develop innovative technologies from basics to operation.”

Source: Extract from the 18 June 2018 [article](#) on www.hamburg.de.

SUMMER IN THE CITY



Sailing on the Alster

In beautiful weather, great alumni events took place again, sponsored by the Alumni Association: At the Alumni-After Work Sailing on the Alster with the **Akademischer Segelclub der TUHH** it was the fourth time that the sails had been hoisted. The TUHH summer party with the Alumni Meeting



367 TUHH graduates throw their caps in the air. Photo-AG, H. Gilbert.

Point and the graduation party with 1,200 guests, which was attended by young academics from 17 countries dressed in traditional sashes and hats, also offered a great atmosphere with 5,000 guests in the Friederich-Ebert Hall.

UPCOMING DATES

September 21, 2018, 15.00 hours

Official Ceremony to Mark TUHH's 40th Anniversary
 "Highlights from 40 Years and a Look at the Future"

With, inter alia, Hamburg's First Mayor Dr. Peter Tschentscher, Prof. Dr. Rainer-Maria Weiss and Prof. Dr. Ed Brinksma

Am Schwarzenberg-Campus 5
 Audimax I

To register,
 e-mail events@tuhh.de

September 21–22, 2018

TUHH & NIT Homecoming 2018
 Barbecue, live music,
 Homecoming Gala at the Empire
 Riverside Hotel

www.tuandyou.de/homecoming2018

September 22, 2018

13.00–18.00 hours

Knowledge Day
 Motto: "Technology and
 Digital World"

Hamburg universities and
 non-university institutions
 as guests at the TUHH
 Lectures, experiments, hands-on
 activities, children's program

TUHH Campus

admission free

October 1 to December 30, 2018

Monika Vollmer

"Change" Photos of
 (Climate) Change
 Exhibition opens on October 11,
 2018, 18.00 hours

Main Building (A), Am
 Schwarzenberg-Campus 1

Admission free

EXIST PROJECT TO DEVELOP SENSOR SYSTEMS FOR THE FIBER COMPOSITES INDUSTRY

Understanding material: The TUHH is launching the EXIST research transfer project Sensors for Fiber Composites. The founding team is developing a wireless sensor system to provide quality assurance for the fiber composites industry that makes the behavior of material in use transparent for the client at all times. The idea was developed at the TUHH Institute of Polymer and Composites. The project is to receive € 802,000 in funding from the Federal Ministry of Economics and Energy and the European Social Fund. Its aim is to market the system solution by spinning off a stock corporation.

A four-member team of materials experts, IT specialists and business economists is backing fiber composite, a young material that by virtue of its special property has a wide range of potential uses. Rotor blades for wind turbines or fuel-saving aircraft are made of it already. "What is largely unknown, however, is the fact that fiber composites are also the material of choice for repairing damaged sewers and building long pipelines and large pressure tanks," says Daniel von Bernstorff, the project manager. "The potential is there. In Europe alone the market for this material is worth around € 20 billion."

The system the team has developed kicks in on the issue of how fiber composite components behave during production and transportation and in use. The founding team uses its patented sensor technology to do so. "Handling it is like applying smart, double-sided adhesive tape. The sensors

connect chemically to the surface of the components," explains Danny Hinz, who is in charge of development and utilization. "Thanks to the ease of application it is now possible for the first time to integrate a large number of sensors into fiber composites without specialized knowledge." The sensors stay in place reliably for decades—even under severe environmental impact or great strain. The sensors can also be put to use at any point in the product life cycle of a fiber composite. That leads to wide-ranging customer benefits. Improved component quality, increased reliability, reduced material input and optimized process efficiency during the production phase ensure greater security in use and calculation.

EXIST research transfer is a program funded by the Federal Ministry of Economics and Energy (BMWi) co-financed by the European Social Fund (ESF). Funding of the Sensors for Fiber Composites project is for 24 months.



Photo: The EXIST team with its expert mentor Prof. Bodo Fiedler. From left to right: Daniel von Bernstorff, Andreas von Bernstorff, Prof. Dr.-Ing. habil. Bodo Fiedler, Danny Hinz, René Steinrücken. Photo: EXIST

ALUMNI MEETING AT THE INSTITUTE OF THERMAL SEPARATION PROCESSES

In June 2018 Prof. Irina Smirnova and Prof. Gerd Brunner of the Institute of Thermal Separation Processes invited alumni, faculty and staff to a meeting. Seventy attendees were given a guided tour of the institute, followed by lectures. In the evening, dinner and a social get-together at the Gasthaus am Kiekeberg rounded off the program.

The event was funded by the alumni association TU & YOU. For information about funding click here. Informationen zu Förderungen gibt es [hier](https://tuandyou.de/mitmachen/alumni-verein/). <https://tuandyou.de/mitmachen/alumni-verein/>



Thermal Separation Processes Institute meeting, photo: TUHH

November 21, 2018, 19.00 hours

TUHH goes music
 Concert of Classical Music in
 Cooperation with the Academy of
 Music and Theater Hamburg

Am Schwarzenberg-Campus 5
 Audimax I

*Admission free,
 donations welcome*

November 24, 2018, 20.00 hours

TUHH goes music
 SingING with
 guest choir singAsong,

Denickestrasse 22
 Audimax II

*Admission free,
 donations welcome*

November 25, 2018, 16.00 hours

TUHH goes music
 SingING with
 guest choir singAsong,

Denickestrasse 22
 Audimax II

*Admission free,
 donations welcome*

ALUMNI AT LUFTHANSA TECHNIK WELCOME TUHH STUDENTS

To gain special insights into the professional environment of TUHH alumni, in June 2018 twenty students and alumni and alumni coordinator Vera Lindenlaub visited Lufthansa Technik AG, one of the largest employers of TUHH graduates. As part of the TUHH Career Center's "Career Paths" series of events seven former TUHH students showed the visitors around their workplaces and told them



Students and alumni at Lufthansa Technik
 photo: Lufthansa Technik

about their jobs at Lufthansa Technik. Kevin Poole and Oliver Ritter showed the group the role of Innovation & Data Analytics in the maintenance of aircraft components. Next came a tour of the Landing Gear Shop with Schomeisa Amiri, Strategy & Product Management, Aircraft Systems, and exciting insights into the world of engine services with Uwe Kaniess, head of Contract Engineering, Engine Services.

Over lunch and a talk at Information Management Klaus Kösling, Product Manager L/Stage Data Distribution, and Uwe Jacob, Project Manager IT, described their jobs. Finally, TUHH alumna Frederike Dechow, Head of Logistics, Sofia, explained what her work at Lufthansa Technik's Logistics Services involves.

"You notice how willing our alumni are to talk about their personal career paths and to give the students hints on how to get their feet on the career ladder," says Vera Lindenlaub. "That gives students a much clearer idea of the work areas and a number of e-mail addresses were exchanged with a career start in mind."

LET'S SEE NOW ...

... **Jasmine Ait-Djoudi, TUHH Press Officer**

Ms. Ait-Djoudi, what is a Press Officer's classical working day like?

That's an easy one: there's no such thing. My work is really wide-ranging and surprises are nothing unusual. But the focus is nonetheless on strategic communication with the general public and different target groups. And—classically—that consists of writing Press releases and articles and of talks with journalists. It also involves social media work, of course, and planning and holding Press conferences and events. It includes in-house communication too, which was very much in demand recently in connection with the growth concept, so that everybody at the TUHH feels well informed, informed in depth, and informed a little entertainingly.

What does the TUHH's fortieth anniversary involve for the Press Officer?

Work. But very nice work! Anniversaries are always out of the ordinary and require a great deal of creativity, organization and communication. First, however, it is a good opportunity to draw atten-



Jasmine Ait-Djoudi interviewed by TU & YOU
 photo: TUHH / F. Schmied

tion to the TUHH and its exciting development and to present it to the media in this context. We naturally also want to address all target groups at the TUHH and thank them for their contribution to the TUHH's success. A cheerful format was our staff event with a giant TUHH birthday cake and a birthday serenade by the TUHH Choir on the campus. Our central anniversary celebrations will take up an entire weekend. On September 21 and 22 we are celebrating the anniversary with a grand ceremony attended by Hamburg's First Mayor, the Homecoming and Hamburg's Knowledge Day, which we are hosting this year.

CLOSE TIES (NOT ONLY) WITH HARBURG – HASPA A FUNDER FOR 40 YEARS

The Hamburger Sparkasse (Haspa) and the TUHH can celebrate jointly this year. The “engineering powerhouse” is a hale and hearty 40 and Haspa has been a strong partner from the start. “There was never any question of us not lending a helping hand to Hamburg’s first and only university of technology,” says Andreas Römer, head of Haspa’s Harburg region. “We are delighted with the TUHH’s success and with having been able to make a modest contribution toward it for many years.” We can’t imagine the TUHH without the Haspa. It is a strong financial partner for many students and for the university itself. It supports the TUHH’s alumni work, for example, and student groups like the robot soccer players RobotING, the music group SwingING and the art initiative at the TUHH with funding from the Haspa lottery savings scheme. It is also strongly committed to financing student housing, such as the recent VIVO@ Phoenix project to build 167 student apartments for modern student living close to the campus and with very good access to public transport. “Student life greatly enriches our part of the city. We want students to be able to find affordable accommodation in Harburg and to feel at home south of the Elbe,” says Haspa’s Holger Knappe, Regional Area Manager Private Customers South-East.

Education is another important topic for Germany’s largest savings bank. With 1.5 million customers, 60,000 of whom are business customers, around 5,000 employees and nearly 350 trainees, the Haspa is an important Hamburg institution and one of the city’s biggest employers and trainers. That

completes the circle for Holger Knappe and is the reason why the Haspa is happy to promote the university in so many areas. For him knowledge is Hamburg’s most valuable commodity. “The better the educational and research facilities and the quality of education and further education, the better it is for Hamburg as a business location, for the Hamburg metropolitan region and for the city’s attractiveness as a place in which to live and work,” he says. “We, like the TUHH, would very much like to help shape the future” – as demonstrated by the development of apps and the latest location concept. The “branch of the future” will transform Haspa branches into neighborhood meeting places. They are to become a new rendezvous for people in the region. “We are going for an open, friendly design with rooms individually furnished to match the area.” A central feature will be a large wooden table, by the way. “It will be good not only for sharing news and views but also for raising a toast to a further 40 years of collaboration between the TUHH and the Haspa,” says Knappe with a smile.



Andreas Römer, Regional Manager Harburg, and Holger Knappe, Regional Area Manager Private Customers South-East) photo: HASPA

IN BRIEF

And the winner is... Alumna Brigitte Sölla won the €250 Amazon shopping voucher for which lots were drawn in May as part of the TU & YOU portal campaign. “I have always had fond memories of my time at the TUHH,” she said. “It was very intensive and also very special. As one of the first female students at the TUHH I and seven other students began in 1983 to study process and chemical technology as a main course of study at the Technikum in Eissendorfer Strasse. Definitely not wanting to miss the TUHH’s fortieth anniversary, I joined the TU & YOU network. I am looking forward to meeting former fellow-students and would

like to share with today’s students my professional experience gained in a career of over 30 years.”

Karl H. Ditze Prize: Innovative, creative and scientifically sound, the Karl H. Ditze Foundation awarded prizes to TUHH graduates for the 19th time for their outstanding achievements. Rolf Dalheimer of the Karl H. Ditze Foundation and TUHH President Ed Brinksma presented the prizes, worth €4,500 in all. They were awarded to Anne Rynek and Maximilian Stark for their MSc theses and to Richard Bäumer for his doctoral dissertation.

ALUMNI-PORTRÄT: DR. LOTHAR BEHLAU



Dr. Lothar Behlau, photo: private

Alumni Profile:

Dr. Lothar Behlau

Name, First name:

Dr. Behlau, Lothar

Nationality:

German

Cty, Country:

Munich, Germany

Study Program, Degree:

Process Engineering,
Dipl. Ing.

Period of Study: 1982-85

Employer and Position: Fraunhofer Society,

Head of Agenda 2022 Department

His matriculation number was 1 and in 1982 he was one of the first five students of process engineering at the TUHH. Lectures were sometimes held in the Prof's office, there was no campus, the refectory was the nearby Tax Office's canteen, and everyone in Harburg knew about them.

Dr. Behlau, how did you find out about the new university of technology?

Teaching at the TUHH began in 1982 with process engineering as a main course of study. In other words, you needed a preliminary diploma or suitable qualifications to enroll. And as the Internet did not yet exist the news was published via very "normal" media channels. I found out about it because a student at my student hostel had pinned a clipping from the Hamburger Abendblatt onto the kitchen notice board...

What was it like to be the first group of students at the TUHH?

Due to the limiting criteria there was only a very limited number of applicants, mainly graduates of the Hamburg Technical College who were sometimes required to attend additional lectures in order to prove qualifications equivalent to the Vordiplom or preliminary diploma. So after the initial selection we started with five students. After a few months we were down to four, but all of us graduated with a Diplom. We felt not like a group of students but more like an exotic little group (of technical college graduates) at a university of technology where 99.7 percent of the work done was research.

What was student life like at and outside of the TUHH?

There was, of course, no campus in the sense of an area teeming with students. There was the main

building in Eissendorfer Strasse and an old laundry where the upstairs rooms were rented for a few postgraduate students. Our "refectory" was the canteen of a Tax Office a few hundred meters away. So we had to fend for ourselves where student life was concerned. There was no student representation on university bodies either.

On the other hand our exotic situation had its good points. We were looked after very personally by the reaching professors, who were highly motivated and held their lectures most seriously despite the limited student numbers. The teaching assistants also worked very hard on the practical training that they had to invent specially for us. This special role compensated us for studying at an otherwise student-free university. And after a while our little group was really well-known...

Can you remember the atmosphere in Harburg?

As I said, initially there was no student life at the TU. A year later, when regular courses began, there was still no student scene, neither at the TU nor in Harburg, because most students commuted from all over the place and only a few lived in Harburg.

Harburg was not a university town back then, of course. I was born near Hamburg (in Pinneberg) and had studied at the Technical College in Bergedorf and lived there before later moving to Harburg. In those days Harburg had more of a reputation as a working class area. I felt fine there but there was no student ambience (yet), of course. As a sideline I wrote articles about developments at the TU for the local supplement of the Hamburger Abendblatt (followed by a series of articles about the new process engineering, urban planning and mechanical engineering study programs).

There were some misgivings in Harburg about how the TU would benefit the borough. I interviewed bar owners and asked whether they would be happy about lots of students soon living there. They couldn't imagine it in those days. I hope that has since changed...

Yet Harburg had everything a student needs: affordable apartments, bars, good transport connections with Hamburg, etc. I was happy to have been able to get to know this part of Hamburg.

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What did you learn at the TUHH that you still use in your career?

From my present vantage point what we were taught in process engineering was excellent. Despite having so few students the professors set their sights on achieving a high standard at the TUHH. Today I work in research management and regularly need my in-depth engineering expertise from those days to assess research projects. Luckily, process engineering conveys a wide understanding of the natural and engineering sciences. The high level of teaching intensity we received left definite traces because the three or four of us had to be constantly attentive.

How, in your view, must universities of technology be positioned in the future?

Along with a sound build-up of competence in one discipline the ability to network with other disciplines should be practiced during the course

of study. As a technical university student you have a progressively smaller overview of the overall system and that is why you need to be taught how to keep up with other disciplines, including the social sciences. This methodological competence is to some extent just as important as the competence in your specialization.

Universities of technology ought to make their contribution and their responsibility to society clear. To what extent does a university of technology contribute directly with its teaching and, above all, its current research to solving the most pressing problems of humankind? This creation of meaning should be part of the internal debate at every university of technology. A sustainability report would be a first step.

DESIGN COMPETITION FOR THE TUHH ANNIVERSARY HOODY

Forty designs and one winner: TUHH employee Sarah Neumann won the design competition for the exclusive anniversary hoody. To mark the university's 40th anniversary the competition was held by the Association of Alumni and Sponsors of the TUHH. Neumann's design convinced the jury and she won an Apple iPad and the first hoody from her collection.

The limited edition hoody is already part of the Alumni Association's collection and is available for €25 in all standard sizes from Bärbel Müller, Room 0.054, Am Schwarzenberg-Campus 3 (E).



Looking stylish in the 2018 anniversary hoody: (from left to right) Vera Lindenlaub (Alumni Relations and TU & YOU Office), Lukas Borutta (student), Marleen Bahe (student) and Ralf Grote (Head of the Presidential Office). photo: TUHH/Schmied

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Publisher
President of the
Hamburg University of
Technology (TUHH)
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Contact
TU & YOU – Vera Lindenlaub
www.tuandyou.de
TUandYOU@tuhh.de

Editor
Vera Lindenlaub

Graphics & Layout
Tine Pape
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APPEAL

Dear TU & YOU Family,

In the weeks ahead a further 2,000-plus applicants will take up a university place once more on one of our Bachelor's or Master's study programs.

And in many cases that involves looking for affordable accommodation in and around Harburg or in Hamburg. Finding it is easier said than done, however, and the first requests for help with finding somewhere to stay have already been received.

So: If you have a room or apartment to let that you would be happy to let to our students from September 15 or October 1, please e-mail us at Wohnraum@tuhh.de