



Stay Tuned!

HAPPY BIRTHDAY, TUHH!



2018 is a very special year for us, as the TUHH is celebrating its 40th birthday! It's not just us celebrating our birthday – it's also a special year for TUTECH Innovation GmbH (25 years) and NIT (20 years) and we hope to mark the occasion by organising various events with TUHH members, students and alumni as well as well-known figures from the fields of science, business, politics and society.

From 21–23 September 2018, the third TUHH & NIT Homecoming will take place as part of the

anniversary celebrations. Both current and former TUHH members will be invited. The weekend of festivities will officially be opened by the Mayor and the new TUHH President Ed Brinksma. The festivities will include barbecues and live music, recognition of people celebrating anniversaries, the "Tag des Wissens" and, of course, our celebratory Homecoming Ball at the Empire Riverside Hotel.

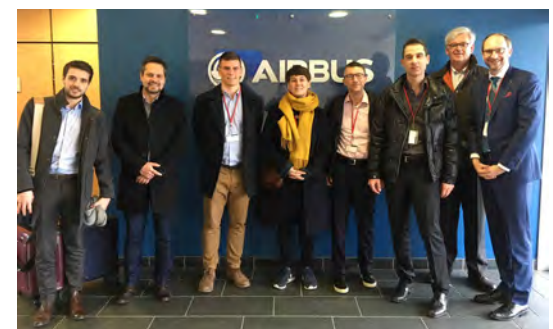
.....
Registration April / May 2018

TUHH INTERNATIONAL



In January 2018, TU & YOU established the 13th alumni chapter in Toulouse. Francis Bouchard, Head of A350 Cabin & Cargo Chief Engineering at Airbus and a TUHH alumnus (Electrical Engineering) is responsible for heading the chapter in Toulouse. At the opening ceremony, TU & YOU met with the chapter presidents and TUHH alumni for a tour of Airbus and was given the opportunity to take an exclusive look at the A350 Final Assembly Line. In the evening, the contract was signed at a restaurant offering typical French cuisine in central Toulouse. We are delighted to have launched our first chapter in France!

In December, the Hamburg chapter meeting took place at Smaato in EMPORIO Hamburg. Dr Benjamin Bürgel has now handed over leader-



Visit to Airbus in Toulouse, photo: TUHH

ship of the chapter to Sohrab Shojaei Khatouni and Petra Vorsteher. We'd like to take this opportunity to thank Dr Bürgel for his efforts so far and wish Ms Vorsteher and Mr Khatouni the best of luck for their chapter work.

CONTENT

- › **Happy Birthday, TUHH!**
- › **TUHH International**
- › **Voluntary knowledge sharing: alumna Ela Brezina in Nicaragua**
- › **I have a question, Professor Winker: why is a Care Revolution required?**
- › **Donor news: record of 52 Deutschlandstipendien**
- › **TU & YOU and SICK AG sponsor RoboCup junior tournament**
- › **Alumni profile: Francis Bouchard**

QUICK LINKS

- [German Version](#)
- [TUHH Website](#)
- [Register Now!](#)
- [TU & YOU on Facebook](#)
- [Startup Dock](#)
- [Northern Institute of Technology Management \(NIT\)](#)
- [Graduiertenakademie](#)

UPCOMING DATES

27/03/2018, 7 p.m.

TUHH@Singapore
Chapter Event

Brotzeit (restaurant)
1 Harbour Front Walk #01-149/151
VivoCity Singapore 098585

25/04/2018, 8 p.m.

Science Slam
AStA in cooperation with FSR AIW/
GES

Building H, Lecture Hall I
Am Schwarzenberg-Campus 5

Free entry.

16/05/2018, 7 p.m.

"TUHH goes music"
Classical concert in cooperation with
the Academy of Music and Theatre

Building H, Lecture Hall I
Am Schwarzenberg-Campus 5

Free entry, donations are welcome.

30/05/2018, 3-7 p.m.

Career Forum
Free corporate networking event
for students and alumni.

Application deadline for individual
interviews: 13/05/2018

Main Building (A)
Am Schwarzenberg-Campus 1

13/06/2018, 6 p.m.

TUHH summer party
Alumni meeting point

At the lake of the TUHH campus

01/04–30/06/2018,
9 a.m.-9 p.m. daily

Heide Meyer exhibition

Main Building (A)
Am Schwarzenberg-Campus 1

Free entry.

VOLUNTARY KNOWLEDGE SHARING:
ALUMNA ELA BREZINA IN NICARAGUA



Ela Brezina studied Energy and Environmental Engineering at TUHH. She has been supporting the company Enicalsa in León, Nicaragua, in engineering and organisational matters as part of the voluntary development programme "weltwärts" for six months now. She was motivated to go to Nicaragua to contribute knowledge there whilst learning new things herself. "Producing water in Nicaragua with the help of the sun is just awesome. Especially in the dry season, simple solar field irrigation systems offer great support for farmers," the 26-year-old explained.

She has been learning about the people, culture and country of Nicaragua for the past six months now whilst contributing her personal knowledge. As a graduate in Energy and Environmental Engineering, she applied for the "Solar Energy in Nicaragua" project with the company Enicalsa in order to put what she had learnt into practice. Enicalsa installs, maintains and repairs solar power systems. In cooperation with Solarwerkstatt Hamburg and the Federal Ministry for Economic Cooperation and Development (BMZ), ten solar field irrigation systems have been installed to supply farmers and their fields with water during the dry season, for example.

In addition, the company has a weather station that was installed in its garden last year. Ela Brezina analyses the data on a monthly basis and uses it mainly for the process of designing the systems. Monthly rainfall and evaporation rates can be used to calculate irrigation needs on a monthly and annual basis in the area around León.

As a consequence of civil wars, natural disasters such as earthquakes, volcanic eruptions and floods, and decades of rule under the Somoza dictatorship until 1979, Nicaragua is considered to be a developing country and is one of the poorest in the world. Its most important exports include coffee,

rum, cigars, bananas, sugar and tobacco. Through the use of renewable energies, Nicaragua hopes to no longer have to rely on the supply of oil and gas from abroad in the long term. The goal is to use renewable energies to account for 90% of the country's energy requirement by 2020. The region offers excellent conditions for the development of solar, geothermal, biomass, water and wind energy.

Nicaragua is located in Central America and is surrounded by the Pacific Ocean and the Caribbean. A chain of volcanoes runs through the country, parallel to the Pacific coast. The east of the country consists mainly of rainforests. The landscape is



Ela Brezina with a solar power system and surveying a well, photos: private source

characterised by perfectly conical volcanoes and idyllic crater lakes. In winter (May–November), people are faced with the challenges posed by the rainy season in terms of flooding, mould and high humidity. In contrast, the summer (December–April) is synonymous with water shortages and dusty conditions in many regions. The average temperature is around 28°C, both in summer and winter.

Weltwärts is a project that relies on donations. Using these donations, basic costs are covered and hard-working people are given the opportunity to benefit from this kind of intercultural knowledge sharing.

Text: Ela Brezina

Arbeit und Leben Hamburg e.V.
IBAN: DE90 2105 0000 0286 0880 00
BIC: HSHNDE33HAN
Subject line: weltwärts Ela Brezina

I HAVE A QUESTION, PROFESSOR WINKER: WHY IS A CARE REVOLUTION REQUIRED?

Finding a balance between paid work and unpaid care work is difficult nowadays: women, in particular, have to look after children and relatives in need of support, advise friends and help people in need. This work, which is necessary for everyone, still goes on behind closed doors and isn't valued highly enough. At the same time, gainfully employed people are being subjected to more pressure due to increased performance requirements and flexibility of working times. Many people reach their limit in trying to manage everything. Being constantly overburdened without sufficient rest periods can lead to exhaustion and mental illnesses. Important needs of children or sick people who are dependent on care also remain unfulfilled. Our own studies show how this development leads to a crisis of social reproduction (Winker 2015: 91–118), which impairs capital utilisation due to a shortage of skilled workers, a large number of days of absence and disenchantment at work.

With the concept of Care Revolution, (Winker 2015: 139–178), I have developed a transformation strategy that has caught the interest of politicians and that combats the excessive impositions to which caregivers are exposed and which also compound economic problems. The Network Care Revolution (www.care-revolution.org) founded in 2014 advocates a society in which people are not classified according to economic usability and can live according to their needs. At the same time, we consciously put the fundamental importance of caregiving in the non-paid family sector, as well as in the paid areas of health and care as well as education and training, at the centre of social struggles.

It takes time to care for yourself and others. One way to limit the requirements is to shorten working hours for full-time workers. This would also be a first step in tackling the unequal division of labour between men and women in the field of family caregiving. Providing a social infrastructure that offers real support to caregivers is important too. This includes high-quality, accessible education and health systems as well as the support of community projects such as neighbourhood centres or multi-generational living arrangements and can be financed by redistributing social wealth.

A central goal of the Care Revolution is also the democratisation of all care areas. This involves those who have taken on custody and those



In this series, Prof. Gabriele Winker, Professor of Labour and Gender Studies at the TUHH, explains her field of research.

Prof. Gabriele Winker, photo: private

dependent on custody being able to decide on the political framework. This can be achieved, for example, through means of round tables, district assemblies or local care councils. A precondition of any comprehensive democratisation, however, is that the care facilities are no longer owned by private owners and are transferred back to the general public.

Therefore, my vision is for society as a whole to be structured in a needs-based manner underpinned by solidarity. This way, the system for both the previously paid and unpaid can be organised so that every person can choose the area in which they wish to work.

DONOR NEWS: RECORD OF 52 DEUTSCHLANDSTIPENDIEN

In January, Deutschlandstipendien (Germany-wide grants for gifted students of all nationalities) were awarded to students for a period of two semesters for the third time. The funding of 300 euros per month is intended to support particularly high-performing and hard-working students during their studies. The non-means-tested grants are provided on a fifty-fifty basis by both the Federal Ministry of Education and Research and donors.

This year, TUHH has achieved a record number of 52 grants. Thus, in comparison to last year, 29 more students received support. The Deutschlandstipendien scholarships provide incentives for private donors to take on responsibility for the education and development of young skilled workers. The grants are awarded based on the criteria of the

student achieving high marks and excellent academic achievement, but also on soft factors such as subject commitment, the willingness to take on social responsibility and the successful mastering of obstacles that the students come across in their personal life and education. The Federal Government is using the Deutschlandstipendium to further expand efforts to foster young academics. This scholarship programme supplements the existing instruments of student finance: wide-spread funding provided by the BAfög study grant, needs-based educational loans and scholarships offered by organisations for the promotion of young talent.

Thanks to the donors:

Henri Benthack Stiftung, Deutsche Bahn Stiftung gGmbH, Synthopol Chemie Dr. rer. pol. Koch GmbH, SICK AG, Gisela und Erwin Sick Stiftung, Gebr. Mankiewicz & Co., Sparda Bank Hamburg eG, Card/1 IB&T Ingenieurgesellschaft Basedow & Tornow GmbH, Karl. H. Ditze Stiftung, Maurer Electronics GmbH / Bundesdruckerei, Jenoptik AG, Jungheinrich AG, PHOENIX CONTACT GmbH & Co.KG, Prof. Hansjörg Sinn, Prof. Otto Lange, Dr. e.H. Eberhard Reuther via the Körber-Stiftung and the TUHH-Stiftung in conjunction with Prof. E. Pfeiffer.



The grant recipients and their donors.
photo: TUHH/TUHH-Photo AG

Information about the Deutschlandstipendium:

<https://tuandyou.de/mitmachen/foerdern/>

TU & YOU AND SICK AG SPONSOR ROBOCUP JUNIOR TOURNAMENT

In February, around 50 students from Hamburg, Bremen and Lower Saxony competed in the NORDMETALL RoboCup junior tournament and demonstrated, in teams, what self-made rescue robots are capable of. The NORDMETALL RoboCup junior tournament is a qualification tournament and is part of the international RoboCup student competition. The young inventors sent their programmable Lego robots into the rescue race. As part of a challenging course, the robots had to help in a rescue scenario. This involved following a line independently, negotiating intersections, climbing ramps, avoiding obstacles and finally finding and recovering the casualties. The tasks are based on challenges that have been mastered by real search and rescue robots too.

The competition was sponsored by TU & YOU and SICK AG.



RoboCup junior tournament 2016, photo: Andreas Lander

ALUMNI PROFILE: FRANCIS BOUCHARD

WOULD YOU LIKE TO BE PART OF OUR SERIES ALUMNI PROFILES?

Send us an E-Mail to tuandyou@tuhh.de

DONATE FOR GREAT STUDENT PROJECTS!

Thank you for your support!

Donate now



Francis Bouchard, photo: private

Name:

Bouchard, Francis

Nationality:

French

City, country:

Toulouse, France

Study programme, final degree:

Electrical Engineering – Computer Engineering / Diplom

Year of graduation: 1999

Employer and position:

Airbus in Toulouse – Head of A350 Cabin & Cargo Chief Engineering

You are president of our alumni chapter in Toulouse, what was it about this position that appealed to you?

I am very proud to have founded this new chapter in Toulouse together with the TUHH alumni team. Our common goal is to expand the international alumni network and strengthen the links between the alumni in south-west France and TUHH. I already experienced this natural link between Toulouse and Hamburg on a daily basis at Airbus, one of the largest employers of TUHH graduates. Many Germans live in Toulouse and the Airbus shuttle provides connections between the two locations every day. I am looking forward to the new task.

Is there an unforgettable experience you had at TUHH that really stands out?

I have great memories! We were a small group from all over the world and used to revise for exams together in the library. Back then, we discovered and marvelled at the wonders of the Internet at the SUN workstations, as we got the opportunity to see the first live images of Mars Pathfinder in high resolution. It was fun to set up Sprachen AG with some friends, which was a tool for organising English, French and Chinese lessons. Is this tool still being used?

The lectures were all in German, which was not so easy at the beginning. I couldn't understand a word of the microelectronics lectures delivered by the famous Saxon professor Reinhold Paul! Thankfully my German friends really helped me out. I'd like to take the opportunity today to thank both them and Professor Otto Lange, who really gave me a lot of confidence.

What's the best thing about your job?

Being responsible for leading the development of the Airbus A350 passenger cabin. This cabin has to be capable of carrying even more passengers whilst still offering the same level of comfort and also being more lightweight. Bringing this multi-million-euro project together with so many European engineers poses a real challenge. However, I'm often able to provide assistance when it comes to communication between different cultures. Engineers usually come up with good ideas but have difficulties selling these ideas to people in management positions in other countries, sometimes not considering the economic challenges to the necessary extent. My job is to decide which ideas make sense so that we can convince people in management positions that they are economically viable and meet customer expectations too.

What is your typical working day like?

During a typical working day, I spend six to eight hours in Webex and at meetings with engineers. I also receive about a hundred emails, and have to quickly decide what is important and what can be replied to at a later stage or given to somebody else to handle. I fly to Hamburg twice a month and occasionally have to visit customers (airlines) and suppliers.

The skills I rely on most are good communication and analytical skills, as well as resilience and perseverance.

I'd like to spend a day in the shoes of ...

...my CEO Tom Enders.

If you met an omniscient researcher from the future, what would you ask them?

Where does the development of artificial intelligence take us? What are human beings doing in a world full of autonomous robots? How can we stop global warming whilst satisfying humanity's needs for greater prosperity and mobility at the same time?

If I were president of the TUHH ...

I would carry out research on AI applications, the battery of the future, how to recycle it and energy networks. I would also like to build up the links with European (and especially French) universities. By working together, we can make significant progress and set high standards.

FOLLOW US



IMPRINT

Publisher

President of the Hamburg University of Technology (TUHH)
21071 Hamburg, Germany

Contact

TU & YOU – Vera Lindenlaub
www.tuandyou.de
TUandYOU@tuhh.de

Editor

Vera Lindenlaub

Graphics & layout

Tine Pape
Illustration & communication design

Photos

TUHH, TUHH-Photo AG, A. Lander.