

Verbinden

German to English Definition: To link up, to connect together

A bi-annual Alumni newsletter from Technical University of Munich (TUM) Asia

SPECIAL EDITION 2018 // 07



TUM Asia Celebrates
15 YEARS!

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TUM Alumni Network

More than 65,000 TUM alumni and current students form the TUM network. As an alumnus, you can benefit from your Alma Mater even after graduating. Interact with others in your area, get in touch in real life or virtually, and benefit from these connections for the rest of your life! Find out ways you can benefit as an alumnus. Register now at together.tum.de.



COMMUNITY

Register your profile on the TUM network and be part of the global community. Create your own interest group or interact with alumni from all over the world.
www.together.tum.de/en/



CAREER

Looking for job opportunities in another country? TUM's online job portal offers a variety of job positions all over the world, made accessible by a click of a button.
www.db.alumni.tum.de/jobs?language=en



ALUMNI SERVICES

Keep in touch with the latest news and events from TUM and TUM Asia. Make sure you keep an updated profile so all campus news can reach your email inbox.
www.tum-asia.edu.sg/community/alumni/



EVENTS

TUM and TUM Asia organizes regular events and workshops that can further develop your professional skills. Alumni events such as Stammtischs will also be a great time to catch up with friends.
www.facebook.com/tum-asia



PUBLICATIONS

Get the news on who's who in the various newsletters and magazines published by the university. All publications are made available in English so you can definitely enjoy the articles within!
www.tum-asia.edu.sg/media/newsletter/



SUPPORT

As an alumna or alumnus, you can support our students in many ways. Through sharing your expertise and experiences in our newsletter, you are able to offer insights into your professional everyday life.
info@tum-asia.edu.sg



Director's Message

As we draw near to the close of TUM's anniversary year, it is delightful to look back on the many wonderful celebrations we had. Besides TUM Asia's 15th Graduation Ceremony in July and the annual TUM Asia Oktoberfest 2018, we had the special opportunity to visit TUM in Munich for TUM's Open Day, witnessing "Culture of Excellence" in action. These events along with two interesting alumni stories will be featured in this second-part special edition of Verbinden.

In retrospect, TUM was founded by King Ludwig II in 1886, with the original purpose "to bring the igniting spark of science" to the commercial and industrial world. Since then, TUM has been shaping the future with exciting innovations and excellent research. This serves both as reminder and motivation for us to continually keep the spark going and pave our road to the future of science and technology.

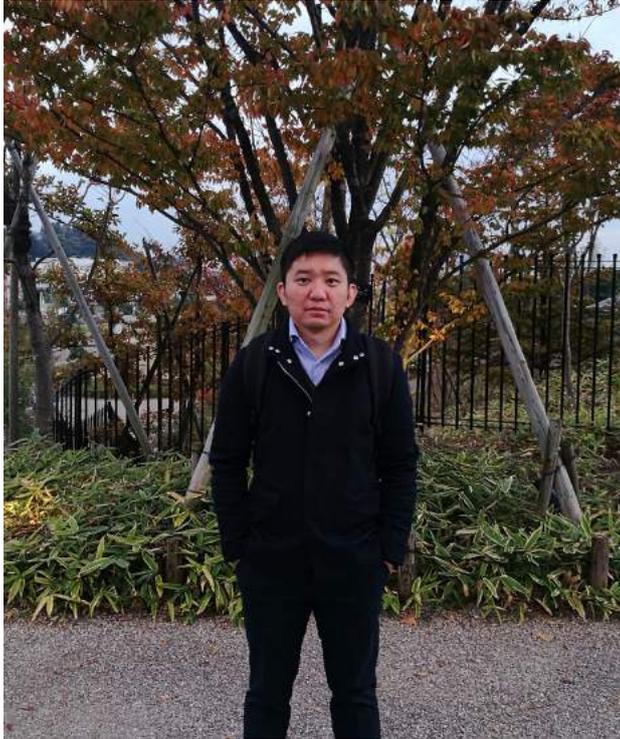
To our alumni members from all around the world: You are each an important part of TUM's future. For the next 150 years to come, new innovations, contributions to the society, and discoveries will be created by you. We look forward to hearing more stories from you in the years to come and we invite you to keep in touch with us.

With that, I hope you have an insightful read and stay tuned to our next issue in Spring 2019. A very Merry Christmas and Happy New Year to all!

Yours Sincerely,

Dr. Markus Wächter
Managing Director, TUM Asia

Alumni Feature



Wang Wei

Master of Science in Transport and Logistics
Class of 2012
Director
Urban Redevelopment Authority, Singapore

With more than ten years experience in urban development, Wang Wei is an alumnus from the Master of Science in Transport and Logistics programme and is currently leading a team involved in planning Singapore's land use usage. In this interview, Wang Wei shares his thoughts on the land development scene in Singapore.

Hi Wang Wei, can you tell us more about yourself?

Servus everyone. I graduated from the Transport and Logistics programme in 2012, specialising in Transportation. In my free time, I love travel and photography – in particular, landscape and street photography.

What sparked your interest in Transportation?

Playing with LEGO while growing up made me really fascinated about the city and how it worked. It was interesting to observe the public bus system, noting how they ferry people around and made the city work. Naturally, I developed an interest in urban planning during my undergraduate studies. My lecturer back then had shared a lot from the

Swiss-German approach to public transport planning, and this formed the basis of my decision to pursue a master's degree in Transport and Logistics at a German university.

What impacted you during your study at TUM Asia?

What impacted me was being able to receive insights not only into the German approach to transport planning, but also being exposed to a different pedagogical approach to learning science and engineering. I really enjoyed taking lessons on public transport planning, picking up design principles for railway tracks, and understanding how best to layout an airport. Not to forget, I have made some close friends along the way, whom I still keep in contact with.



Wang Wei (leftmost) with his classmates and lecturer at Pulau Ubin

What is your role and responsibilities at Urban Redevelopment Authority (URA)?

I am currently the Director of the Physical Planning (Northeast) department. As part of my role, I oversee the land use planning for a few key towns in the northeast of Singapore, such as Punggol, Ang Mo Kio and Serangoon, as well as other places such as Seletar and Pulau Ubin.

Share with us an interesting development project that you have been working on recently.

I am part of a larger team working on the master plan for the Punggol Digital District, unveiled in January 2018. This project is several years in the making and will see the development of a new business park located side-by-side the new permanent campus of Singapore Institute of Technology, set within the residential heartland of Singapore.

What really excites me about the master plan is how we could push the boundaries in integrated transport, land use planning, and land use policy. This is the first business park that will be integrated with a hawker centre, a bus interchange and a community club, with a new MRT station located underground.

With your years of experience in urban planning, what are your thoughts about the evolvement of the land development scene in Singapore?

One aspect I have noticed is how the rise of big data, data analytics and smart systems are linked with urban planning and development. There are some real issues that we will need to navigate, for instance, data protection. But there are also opportunities that come with the rise of

these digital tools. As such, the question is, how can we best harness such technologies to guide city development and transport systems? It is something that we will have to continue to work at.

As Singapore moves towards building a Smart City, what do you think are some exciting prospects in the Transport & Logistics industry that engineers can look forward to?

I believe that there is much that our engineers can look forward to, not only for Singapore but also globally. With a Smart City, you will need engineers who can not only navigate the foundational aspects of city building, but who can do so with the integration of digital and smart technology. This opens new avenues for engineers to go into, be it smart infrastructure design, big data analytics or new ways of transport planning.

Lastly, what is your personal career goal in the near future?

It is definitely to continue to gain mastery over urban and transport planning, and more specifically, looking at the nexus of these two interrelated fields and how they impact each other.



With a Smart City, you will need engineers who can not only navigate the foundational aspects of city building, but who can do so with the integration of digital and smart technology.

Wang Wei



Wang Wei conducting a training session with new planners at Urban Redevelopment Authority

Herzliche Glückwünsche, Class of 2018



Every year in July marks a significant milestone when we see our Bachelor and Master graduates, from different programmes and backgrounds, coming together to celebrate the successful completion of their studies. It is a day of mixed feelings for our students as they reflect on their journey here in TUM Asia. For most of our students, coming to this day has given them a great sense of fulfillment, being able to celebrate their achievements and fruits of perseverance with their fellow classmates, friends and family.

As the students prepares to move on to the next phase of life, our graduates hold many hopes and expectations for what lies ahead of them. Ang Jing Kai, class valedictorian for the Bachelor of Science in Chemical Engineering, shared his thoughts for the future. “We will be tested on how ready we are to lead an independent life after 20 over years of preparation. In the technical aspect, I am confident to say that most of us here are ready.” Said Jing Kai.

Dr Markus Wächter encouraged the students to stay relevant to future challenges and changes. “You may not realize it now, but your determination will be what

leads you to tackle the next phase of life in an equally excellent manner. Your Science or Engineering studies will do more than to equip you with heady knowledge of formulas and theories.” He said.

Chock Wee Boon, class valedictorian for the Master of Science in Aerospace Engineering, also gave personal advice to his fellow graduates. “This graduation is just the starting point of something greater in our lives. As we continue to chase for success - in the form of promotions, wealth and achievements, remember one thing - happiness. Happiness comes from love: Love your failures, love your critiques, learn valuable lessons and love yourself by becoming better.”

“**We will be tested on how ready we are to lead an independent life after 20 over years of preparation. In the technical aspect, I am confident to say that most of us here are ready.**”

Ang Jing Kai



Photos: Israel Photography

Alumni Feature



Rilette Cirlem

Bachelor of Science in Chemical Engineering
Class of 2018
Application Engineer
Exion Asia, Singapore

Rilette graduated from the Bachelor of Science programme in Chemical Engineering in July this year and has recently transited to working life. The Verbinden team speaks with her to find out more about how she is adapting to her new job as an engineer in practice.

Hi Rilette, can you give our readers a short introduction about yourself?

Hi, my name is Rilette Cirlem. I was enrolled in the Bachelor of Science in Chemical Engineering and graduated in July this year. I am currently working in Exion Asia as an Application Engineer.

What led you to pursue an education in Chemical Engineering?

I decided to pursue Chemical Engineering because it does not only focus on the technical aspects of engineering, but also incorporates other fields such as chemistry and material science. Back then, I thought that this might give me exciting career choices in the future, and I found it to be true when I started looking for jobs after graduation.

You have just graduated not too long ago. How would you describe your academic journey in TUM Asia?

It was not easy adapting to TUM's block teaching style and taking examinations almost every three weeks. But at the same time, it was a very fulfilling experience. It gives me such pride and joy to think that my friends and I have managed to complete the course together.

One of the highlights in my journey in TUM Asia would be the Overseas Immersion Programme (OIP) in Germany, where I did my Bachelor Thesis. Apart from all the academic knowledge I have gained, I was exposed to different cultures and made amazing friends along the way. This experience has been priceless.



Rilette (rightmost) and her friends from TUM and TUM Asia

How has it been transiting from student life to working life?

It was challenging at first because due to the nature of my work, making a mistake could cause an impact to the company and the people around you. Whereas during my student life, it was okay to make mistakes because this is where you learn. Having worked for a few months now, things are getting better, and while I still have so much to learn, I have grown in my confidence to handle work tasks.

Can you tell us more about your role and responsibilities at work?

My company is an equipment distributor to Pharmaceutical and Oil and Gas companies. As an Application Engineer, I work in conjunction with the sales team. I provide technical advice and solution to technical issues that they may face throughout the execution of a project. I am also currently handling projects which requires mixers – where I get to propose the best mixer based on the client’s application.



Rilette in TUM, Munich for her OIP

Photos: Rilette

“ Apart from all the academic knowledge I have gained, I was exposed to different cultures and made amazing friends along the way. This experience has been priceless.”

Rilette Cirlem

Do you think your studies in TUM Asia has contributed to your current career choice?

I wanted to be exposed to different industries, learn from the different processes and widen my network along the way. I think this would be beneficial for me in the long run. My degree studies have given me an advantage especially when applying for my job. My company felt that Chemical Engineers would be best suited for the job due to their knowledge in certain processes.



Rilette and her classmates at her Graduation Ceremony



Rilette (front leftmost) and her colleagues during her first department dinner

Prost to 150 Years!



Oktoberfest is an annual event in the Bavaria state of Germany and it has since become the world's biggest beer festival widely celebrated everywhere. The event is particularly significant to our TUM Asia students and alumni, having heard so much about it from their German professors. This year's TUM Asia Oktoberfest was held on 11 October 2018 at Brotzeit, in Vivocity, and was attended by faculty, alumni and students from both TUM Asia and TUM.

The highlight of the event this night was having Professor Wolfgang A. Herrmann, president of Technical University of Munich, as the guest-of-honour. Celebrating the 150 years of TUM's foundation as a university, Professor Herrmann shared the success story of TUM as an entrepreneurial university and his thoughts for the future forward. Our students and alumni were delighted to once again meet their university president, as well as mingle with one another over a great spread of Bavarian food and beer. Overall, it was an enjoyable night and everyone had a great time. Till the next time, Prost!



Experiencing The Culture of Excellence

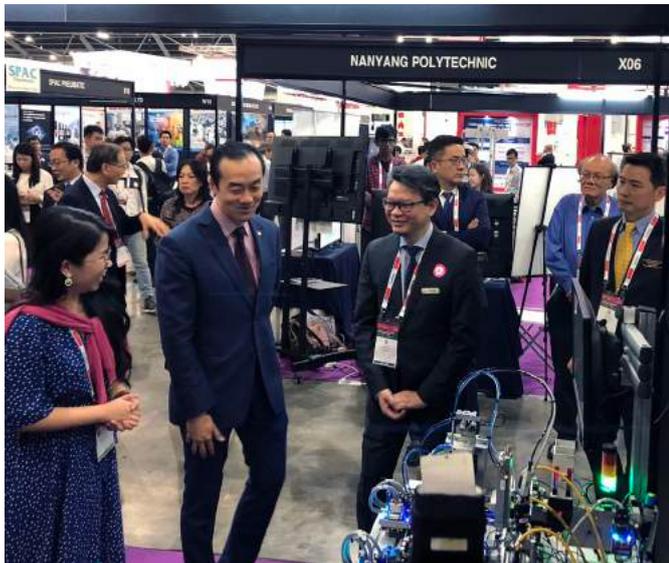
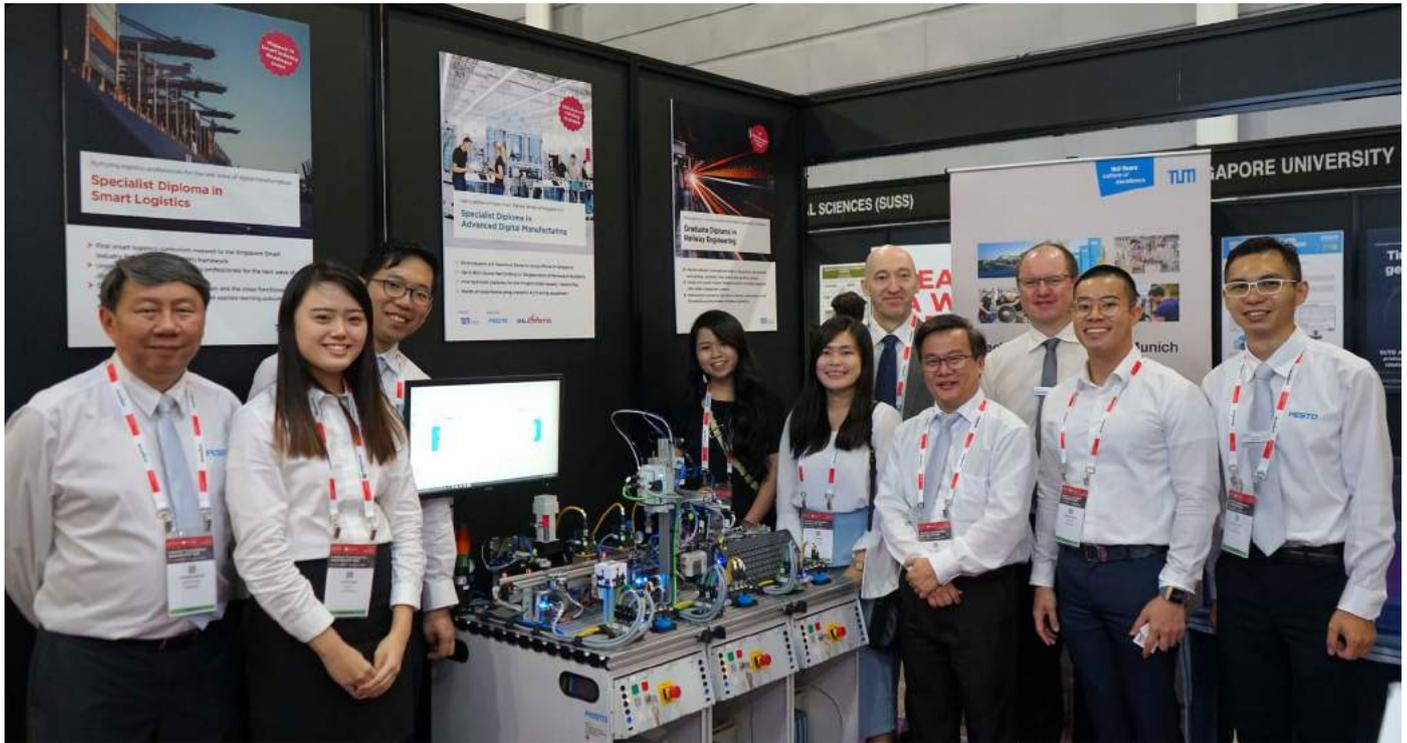


The Technical University of Munich held its Open House Day on the 13 October 2018. To celebrate its 150th anniversary, TUM opened the doors of all four main campuses – in Munich, Garching, Weihenstephan and Straubing, with the goal of showcasing what ‘150 Years of Culture of Experience’ means. Freshmen and interested visitors were invited to experience the world of science and research through an exciting and insightful series of experiments, guide tours, presentations and lectures.

TUM Asia was happy to be a part of the TUM Open Day exhibitions, showcasing the relevance of TUM’s programme in Singapore and in Asia at large. Students and alumni who were residing in Munich helped out at the booth to give visitors an introduction about their education, culture and local foods from Singapore. Besides these, our staff representative also gave a talk to give the public an introduction about TUM Asia’s campus and research activities in Singapore. It was a great time of fun and interaction for TUM Asia at our home university campus.

Photos: TUM Asia

World's Largest Industrial Tech Show



Industrial Transformation ASIA-PACIFIC is organized by the world's largest industrial technology trade show, and for the first time specially curated for the Asian region. The strategic platform aims to bring together an ecosystem of stakeholders and experts to learn, share, collaborate, network and do business with each other, in support of the region's manufacturing industry growth and transformative initiatives.

The inaugural trade show was hosted in Singapore from October 16-18 at the Singapore EXPO Convention and Exhibition Centre. TUM Asia was proud to be one of the exhibitors alongside the five local polytechnics and other higher learning institutions. The TUM Asia booth showcased its latest suite of executive development courses including: Specialist Diploma in Advanced Digital Manufacturing, Graduate Diploma in Smart Logistics and Graduate Diploma in Railway Engineering. To demonstrate the Industrie 4.0 training programme offered by TUM Asia and Festo Didactic, the MPS 203 I4.0 learning system was displayed at the booth as a simulation for automation technology.

Photos: TUM Asia



Photo: Technical University of Munich

150 Years of TUM

15 Years of TUM Asia

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