

KontakTUM

Special Issue

For Alumni of the Technical University of Munich
Fall/Winter 2018/2019



What Drives Us

A fresh collection of interviews
to celebrate our jubilee

” It’s great to grow together with the TUM family.

Rainer Stellwag studied Physics at the TUM in the 1960s. The successes of his alma mater impressed him so much 50 years later that he decided to donate to the TUM University Foundation.

www.tum-universitätsstiftung.de

Read the whole story here:

www.150.alumni.tum.de/rainer-stellwag-en





Dr. Verena Schmöller and Dr. Sabrina Eisele
from the KontaktTUM editorial team.

With passion

Music unites people of different cultures and ages, even across several generations. We experience this anew every year at TUM's advent concerts: young and old play and sing together before a colorfully diverse audience. People celebrating their own TUM jubilee, alumni, staff, students, scientists and guest researchers come together to enjoy music performed by the TUM Choir and the Munich Symphonic Ensemble. At the end of the anniversary year, the concerts will take place on the first Advent Sunday of 2018 in the series "Festmusik," for which the musicians and conductor Prof. Felix Mayer have developed an impressive program (p. 60).

The TUM family is not only united by our enthusiasm for music, but also our ability to pursue our own activities with passion and to drive developments forward. Passion for a cause appears again and again in the alumni interviews in this issue. They all show how enthusiastic TUM Alumni are in their activities, whether as director of Bavarian Radio with a passion for technology or as an Olympic champion.

The TUM would like to invite you to special events at the end of our anniversary year. On November 10, 2018, a colloquium will take place in honor of the Nobel Prize-winner E. O. Fischer (Alumni 1949), who would have been 100 years old this year (p. 66). One week later, the TUM Emeriti of Excellence invite you to the Africa Symposium, which will present a large number of well-known speakers (p. 68). Come along and be infected by the passion of TUM Alumni.

Celebrate 150 years of our culture of excellence with your TUM family!

We've still got it!

Once again, the TUM successfully participated in the highly competitive Excellence Initiative organized by the federal and state governments. Four research clusters will each receive up to 70 million euros in funding over the next seven years. The TUM will now once again apply for funding as a University of Excellence. The result of the application will be announced in July 2019.

www.exzellenz.tum.de

Alumni Celebrating Excellence | 150 Years

Do you already know our picture gallery with impressions from the jubilee year?

Have a look: www.150.alumni.tum.de/en/impressionen.

What does your alma mater look like to you? What memories do you have of the campus, lecture halls and labs?

Send us your pictures of the TUM – from yesterday and today.

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Dynamism and Breakthroughs

Innovation needs talent. This puts the TUM in a good position. The best minds in the world meet each other here. Motivated students meet brilliant researchers from Germany and abroad.

After graduation, our alumni carry the “spark of science” into the industrial world, as was the wish of my predecessor Karl Max von Bauernfeind, founding director of our university 150 years ago. Our alumni bring back their experiences from industry and society to their alma mater and ensure an exchange between scientific research and its practical application. Thus, the scientific invention meets the innovation of the markets.

For the third time in a row, Reuters ranked the TUM among the top 10 most innovative universities in Europe. In researching artificial intelligence, our university ranks sixth worldwide, according to Times Higher Education Supplement. To keep things that way, and to hold these top positions for the next 150 years, we have to accept the challenges of the most difficult technical questions of our time. Today, we are at the forefront of electromobility, but also avant-garde approaches to aviation and aerospace, whose initial breakthroughs and technologies were developed over 100 years ago right here by Aurel Vlaicu and Claude Dornier. Our physicians at Rechts der Isar Hospital transplanted two entire donor arms to an accident victim, opening a new chapter in medical history.

Cutting-edge research in artificial intelligence

During our anniversary year, we founded the Munich School of Robotics and Machine Intelligence (MSRM). Machines will not replace us, but will make our lives easier as “machine intelligence” increases. The TUM will play a key role in shaping this development. The

MSRM's founding director is the internationally renowned engineer and computer scientist Professor Sami Haddadin, himself a TUM Alumnus (Degree 2005, Master 2009). He is now bringing his extensive expertise back to his alma mater.

The interdisciplinary combination of subjects and the easy exchange of research data and experience are one of the great strengths of the TUM. Technology must always refer back to humans – it is there for people, not for itself. We hence integrate the humanities and social sciences, including political science, into our agenda.

As a university, we need to keep moving to attract talented individuals from home and abroad and to equip the younger generation to tackle the challenges ahead. TUM is launching a new B.Sc. study program and six new Master's degree courses this winter semester. These include the first two programs from the TUM School of Management at the new TUM Heilbronn Campus and another at the Straubing Campus for Biotechnology and Sustainability, which has been fully integrated into TUM since October 2017.

150 Jahre
culture of
excellence

TUM

TUM President Wolfgang A. Herrmann and Minister of Science Marion Kiechle laid the foundations for the new TUM Campus in the Olympic Park in May 2018. A lot is happening at the TUM during our jubilee year. "A university without a construction site is not a university," said the President.



Europe's largest and most modern sports campus

Exercise and nutrition are the most important, complementary preventative factors for staying healthy. Providing a foundation for science and promulgating it are the tasks of any university with the core faculties. This places the TUM in a unique position within Germany. Here, experts from the fields of sports science, nutrition science and medicine can perform research together. Faced with an exponentially growing world population, we must develop science, technology and medicine. In a prosperous country with high life expectancy, we must make our contribution to ensuring that scientific and technical progress also serves the greater good of people in less fortunate conditions. The TUM sees development on the African continent as a great task for the future and is approaching this challenge with our various skills. We are already closely connected with Africa in numerous fields of research and teaching. Last year, we introduced the new prototype of the aCar, an electric car for Africa. This vehicle is affordable for people in Africa, is all-terrain and can carry large loads. The TUM's commitment to Africa will be presented to the public in a symposium this jubilee year. The initiative comes from the interdisciplinary circle TUM Emeriti of Excellence and addresses a topic that has become of utmost importance in European and world politics (p. 69 in this issue). Heavily supported by the Free State of Bavaria and the federal and state-level Excellence Initiative, we are able to work alongside the world's

best partners and competitors thanks to recent comprehensive and far-reaching reforms. Nevertheless, the competition for the brightest minds starts every day. Here, generous donors and patrons help us. They have donated a total of 50 million euros to the recently established TUM University Foundation. Alumni couple Gabriele and Robert Hertle (interview on p. 40) are amongst recent donors.

Well-equipped for the future

Other alumni contribute their extraordinary experience to our university and support the personal and professional development of the younger generation. We constantly benefit from this and are proud of it. You can get to know seven alumni with outstanding CVs in this issue. Starting on page 10, you can learn what motivates them to go their own way and why, like the TUM, they will never stop.

The next 150 years are waiting for us. Let's continue to carry the "spark of science" into the world together!

Warmly yours,

Wolfgang A. Herrmann
President



What Drives Us

Interviews with Seven Alumni

For 150 years, the TUM has been proud to offer degrees to many superbly educated graduates every semester. TUM Alumni take the latest scientific discoveries with them into industry and society and help make the world better bit by bit. During the TUM's anniversary year, some of them took the time to tell us how they got there, where they are today and what motivates them to never stop.

Prof. Dr. Birgit Spanner-Ulmer
Prof. Andreas Meck
Dr. Andrea Bör
Klaus Wolfermann
Dr. Dr. h.c. Edmund Stoiber
Gabriele and Prof. Dr. Robert Hertle

Do you want to hear even
more alumni stories?

www.150.alumni.tum.de

ONE ISSUE, SEVEN ALUMNI

BIRGIT SPANNER-ULMER | INTERVIEW





BR's TECHNICAL DIRECTOR

BIRGIT SPANNER-ULMER

**I always
come up with
something
new again.**

Bayerischer Rundfunk's technical director about
her love of solving problems and her ability to assert
herself in a blazer and boiler suit.

Since 2012, Birgit Spanner-Ulmer is in charge of leading the Bayerischer Rundfunk into the future at the technical level as the director. Before that, the graduate engineer with a PhD and a professor at TUM, designed innovative car models for Audi, and built up the Faculty for Work Science and Innovation Management in Chemnitz. Birgit Spanner-Ulmer always gives 100% to achieve each single one of her tasks, she stands firm in her convictions and remains stubborn in order to drive optimizations forward.

Professor Spanner-Ulmer, what do television and radio broadcasting look like in the future?

Both will change massively. A cultural change has already taken place simply by virtue of the fact that today, everyone who has a smartphone can become an editor. Everyone can make some kind of little movie and put it on the Internet. Today, users have the possibility to immediately pass on information and do this with minimum effort, something that used to be the domain of traditional media.

What does this mean for public service broadcasting?

We have to be much faster than before and still deliver high quality. We are committed to reporting 24 hours a day and seven days in the week, and in doing so, complying with the journalistic basic principles. As part of the public service media, our mission is to generate reporting and entertainment that is competitive, but that is still serious. This has become more difficult because we no longer have a monopoly on information, but that is exactly why it is all the more important. Only in this way can we create the urgently needed counterpart, for example, to fake news, that is, false news, which is frequently circulating on the Internet.

How do you implement this as technical director at the Bayerischer Rundfunk?

We bundle our resources in the entire BR and no longer work as before separately according to radio broadcasting, television and online, but instead in a cross-media way and we offer our topics on all channels, independent of time and place. For the segment of topicality, this means, for instance: When an editor is currently reporting on the finding of a bomb, he then makes the O tone, TV picture and posts the information in the app, i.e., online, in parallel, too. At the technical level, I must make sure the editor has the right equipment to be able to operate all three output paths. Today, the technology backpack that colleagues strap on and which is equipped with four SIM cards frequently replaces a broadcasting van.

What you do there does sound very practice-oriented.

That it is. You might have also heard that BR will soon be moving to Freimann. Here too, we have to plan how many radio broadcasting studios we will need in the new buildings in the future. I'm in charge of everything that has to do with radio, television and online production at the technical level – that is, I'm responsible for the infrastructure with which we bring contents to people and for the technical staff. I'm quite close to the operational business and simultaneously always try to think in a forward-looking way. The days are not short, but they are incredibly exciting.

Where do you get the drive and energy for this?

Something different happens every day so it never gets boring. And I'm a woman of conviction. I always think: It can be done even better. There is nothing that has already been fully tapped. I simply love to come up with ideas. I used to get upset when I had the feeling someone "stole" my idea, for example, for a presentation. Today I tell myself: nice when others implement my ideas, I always come up with something new again.

A great attitude.

First off, it sets me free and secondly, it is an intellectual challenge because I am allowed to be creative time and time again.

You studied industrial engineering and then earned your PhD in mechanical engineering at TUM. How did this come about?

I knew quite soon that I'd simply have to be a little bit better than the male colleagues as a woman in engineering. You could also say: have to be more visible. That's why it was already clear to me during my graduate studies that I wanted to get my doctorate. And I knew I wanted to concentrate even more on the engineering subjects. At that time, my student research project was oriented towards production technology, more in-depth studies than focused on manufacturing technology. I wanted to qualify myself further in this area and delve into it more deeply. In doing so, the in-

terface between humans and technology was especially interesting to me.

What do you mean by this?

My doctoral supervisor, Professor Bubb, actually ignited my fascination. He is one of the foremost researchers in the field of vehicle ergonomics. I was interested in how the human thinking patterns work and how you have to take these into account when designing products so that a product can be operated in a safe and intuitive way.

Do you have an example?

This can be the cockpit in the car that must be designed in a certain way so that we immediately understand what is being shown right now. In my doctoral thesis, I focused on the compatibility of control devices. The reason for this at that time was a plane crash whose root cause analysis determined that the pilots were not able to congruently operate a control device and the display. This triggered an operating error, which resulted in the accident. I thought the question of how you can prevent this human error was absolutely exciting. I had a fantastic time during my doctorate studies.

Is there an experience while you were working on your PhD that particularly sticks in your mind?

I was allowed to help Professor Bubb in highly diverse research projects and industry collaborations. He already gave me jobs with a lot of responsibility at an early stage. This made me proud and self-confident. Something I'll never forget is, for example, a truly large-scale vehicle test for unintentional acceleration with 100 test subjects. I was allowed to organize everything: find a car dealer, choose a test route, coordinate modification of the car, win over the test subjects and develop the test design. This was a huge thing for me at the age of 28.

Your doctoral exam, too?

It was chaired by Professor Joachim Milberg, who went to BMW shortly afterwards and later became the chief executive officer. And then, of course, my doctoral supervisor and Professor Heinzpeter Rühmann as the assessor were there as well. Professor Milberg especially wanted to know more about the practical applicability of my work. It was really interesting to talk about the way in which you could further develop my considerations.

It meant a lot to me that my research was taken so seriously. After the exam, my father and my boyfriend – who later became my husband – welcomed and congratulated me outside. And I even got a great surprise.

What kind of surprise?

Professor Bubb, together with the team, put together a wonderful doctoral hat for me. A model of the robot with which I conducted the analyses during my doctoral work was at the top of the hat. It was battery-driven and could rotate. It was the best doctoral hat that I have ever seen. I'm still happy about it today and am very proud.

And these positive experiences during your doctoral work were why you then went on to Eichstätt for habilitation?

I had the desire to qualify myself further scientifically, but there were very practical reasons, too. At that time, my father was no longer doing very well. We had a close relationship: ever since my earliest childhood, I already helped my father in the garden. When he was tinkering around and making something, he let me roll up my sleeves and tackle the project. In the course of his life, he went blind and needed more care. Since my parents' house was in Eichstätt, this was easy to combine with my work at the university. I was able to make sure my father was doing well. This was important to me.



Birgit Spanner-Ulmer with the doctoral hat her doctoral supervisor from TUM put together as her gift for passing the doctoral exam with flying colours. The model of the robot Birgit Spanner-Ulmer used at that time to conduct her examinations is on top of the hat.

Would you still have habilitated if these private reasons had not existed?

No. At the end of the day, the habilitation didn't hurt me. But it was a time that clearly pushed me to my limits. If you were to ask me when I got my first gray hair: It was then.

Why?

My habilitation was located in the philosophical-pedagogical faculty. I didn't really like it that much due to technical reasons alone because work there was done more with models from which several are applied at the same time, and there are seldom clear-cut solutions. During this time, my father and husband encouraged me positively and said: "Don't be like that, just get on with it, things will work out." And I didn't give up. There are moments when you have to struggle your way through. Not everything in life is just "wishing for something." My decision to go into the industry after the habilitation was much easier for me afterwards.

Did your social environment see it this way, too?

It was not easy. I was already 37 and many people advised me to stay in the field of science because I was overqualified for a job in the industry. But I didn't want this. Then I got lucky and was invited to an interview at Audi where someone sitting across from me said: "I'll take her."

So was it like you imagined it would be?

It was even much better. I started in the production business unit and learned the ropes very quickly. I could even use parts of my scientific work. But in order to improve processes on the assembly line, I first had to understand what exactly happens there. So I assisted there on a trial basis.

You stood on the line?

Yes, my former boss was in production almost every day and I accompanied him. After the first half year, I then pulled on the boiler suit myself for two weeks and helped out in the assembly process. Three or four days later, my husband asked me if I was no longer cleaning myself because I was black all over. But actually, those were bruises I got because I always had to lean into the vehicle. I really looked terrible. Nevertheless, it was one of the best experiences I have ever had. Definitely two well-invested weeks.

Did you not have any difficulties being accepted by the colleagues?

Of course, at the beginning they thought: "What does the doctorate want there now?" But I was able to convince them of me relatively quickly and then we helped each other out a lot. It was tougher at the management level. I was immediately perceived as a competitor there, or to formulate it negatively, as competition. I had to assert myself the right way.

How did you do that?

Women, and this also holds true for me, tend to not enter into direct confrontations, but instead say: "Then I'll just do it better." But this also means, you must...

... work twice as hard.

Exactly. Early on, I got into the habit of simply doing more. The fellow competitors didn't exactly treat me in an oversensitive way. However, it was often the case that someone at the next level or next higher level noticed my work and supported me, or opened up new opportunities for me with special projects.

It was like this at Audi, too?

Yes. One year after I started at Audi, when I was 38, I was already in the management. And three years later, I was asked if I didn't want to switch over to technical development. By the way, that was TUM professor and alumnus Peter Tropschuh, who wanted to have me on board for the concept design. This is the most exciting department of all because here, you can focus on the question of what the car of tomorrow should look like.

You left Audi after five years to accept an offer for a professorship in Chemnitz. But you did not want to enter into a scientific profession?

I had a great time at Audi. I then became aware of the tender for the new professorship for the science of ergonomics in Chemnitz. An exciting field, my curiosity prevailed here. I applied, was at the "audition," and I came in first place there. The other six behind me – they were all men.

So you gave up a well paid job in the management of a globally active carmaker in order to become a professor at a mid-sized university in eastern Germany. Wasn't this a tough decision for you?

Yes, but so far I've been able to experience so many great things and I thought an own professorship could

be the next exciting task. I knew I can realize my ideas here, I can do something of my own again here, there are creative possibilities here. And this is how it was then, too: We brought numerous industry cooperations on board, which enabled us to quickly generate research projects. Within a very short time, the chair was enlarged to comprise 45 employees.

You came to Munich in 2012 and started your job with the Bayerischer Rundfunk. At the same time, you were appointed as professor for production and technology in the media industry at TUM. What do you want to get across to the students?

Digitalization and innovative technologies make a lot of things possible. For me, it is important to talk about the impact on companies and the society with regard to the chances and risks. I want to stir up the students' enthusiasm for this.

Scientific research, university teaching, industrial development – which one of your diverse experiences do you draw on most frequently today?

Ulrich Wilhelm, the director of Bayerischer Rundfunk, told me on my first day: You will need everything that you have ever learned in this job. And he was right about this.

This means you benefit today from the fact that your curriculum vitae was perhaps not quite so stringent?

I can only recommend everyone to not just stay with one thing, but to gather as many impressions in life as possible in the scope of their field of competence. It would be good if universities and companies would reciprocally open up to each other to a greater extent. The TUM is at the forefront there with a wide array of initiatives that promote interdisciplinarity. The transparency of careers between industry and science should become even higher. Those who want to take huge steps forward have to gain insights into all aspects of the world in which they live. This is my firm conviction. It is enriching for me and I am very thankful I can do it this way.



PROF. DR. BIRGIT SPANNER-ULMER

PhD in Mechanical Engineering in 1993

Birgit Spanner-Ulmer was born in Bavarian Eichstätt. After graduating from high school, she studied industrial engineering in Karlsruhe. She earned her PhD at TUM in the field of mechanical engineering and habilitated in Eichstätt in the specialist area of the science of ergonomics. Her career took her from science into the industry and then back again: After her habilitation, she worked for Audi in the management, initially in the production business unit, and then in the technical development division, where, among other things, she made sure ergonomics were enhanced in new vehicles. In 2004, she was appointed professor for the science of ergonomics at the Technical University of Chemnitz. Since 2012, she is the director for production and technology at Bayerischer Rundfunk, where she is responsible for all matters related to production and broadcast technology as well as distribution and their planning. At TUM, she also holds the chair for production and technology in the media industry, where she is currently on a leave of absence from her job at the Bayerischer Rundfunk. The Association of German Engineers presented Birgit Spanner-Ulmer, as the first woman, with the Golden Ring of Honor for her "outstanding technical know-how."

ONE ISSUE, SEVEN ALUMNI

ANDREAS MECK | INTERVIEW



ARCHITECT

ANDREAS MECK

The diversity of tasks fascinates me.

The professor on TUM's new cafeteria in Garching, and the moment when he was fired with enthusiasm for the architecture.

Andreas Meck is one of Germany's most sought-after architects. The TUM alumnus loves to get involved in diverse projects over and over again. He constructs residential houses and holiday homes as well as church community centers and sacred buildings. And he loves to teach, sit down with students regarding drafts and talk about concepts. In cooperation with his office partner Axel Frühauf, he designed an extraordinary new cafeteria building for the TUM in Garching, which will open its doors at the beginning of next year.

Professor Meck, you're building the new cafeteria in Garching. What was it like to come back to TUM for the interview today? Did you feel like you were coming home?

That is a good question. When you've studied here and go back into this building after decades, there is one thing that comes back to you: That is the smell. You don't forget that. Then you notice "Hmhm, aha, this still smells the same as back then." And of course, it is fun to work for builders who you know and who are in the immediate proximity.

How did you convince with your draft in the internationally tendered competition?

This was a very difficult task. A cafeteria has high functional requirements. Just imagine: up to 7,000 meals that are prepared there in just a few hours, of which 2,000 go outside, 1,500 seats in one big room. Managing the logistics alone, when the students come, decide on a meal, pick up the food, eat it at the table and then leave the cafeteria again.

This must be a big room.

Yes, with regard to the construction, that is a challenge. A room where 1,500 students can eat naturally needs a certain size, it has specific spans; the whole technology must, so to speak, be housed in this construction. What's more: a cafeteria like this is a key communication hub within a university and a campus facility. That's where the students get together, where the exchange takes place – between various subjects, too. I think that is very important. And this also means the cafeteria had to be shaped in a special way in order to fulfill these demands here. We have succeeded in bringing all of these framework conditions together so that an overall concept has been created and a cafeteria is now being built that will serve as a core focus of the Garching location, too.

What will the cafeteria look like?

The cafeteria will have a flat, wooden outer shell. Very deliberately. Because this is a material that is not present on the campus yet in this form. We wanted to give the cafeteria a special status. We believe that at this location, in the middle of this building that is very technically oriented in terms of content and looks, a cafeteria with a haptic and, let me say now, emotional surface would be very good. It will therefore acquire a character that differs from the buildings standing elsewhere in Garching.

And the interior?

The theme of wood will also express itself in the interior space over the façades. Other than that, we have visible reinforced concrete ceilings, partially plastered walls, that is, a concept moves color-wise in the black/white range and has more of a neutral background. When you imagine that 1,500 students will eat there, that's colorful and varied enough.

I take small things just as seriously as the big ones.

The cafeteria has a courtyard, too, right?

Yes, that is the cafeteria's special feature. You have to imagine it like this: the dining hall is on the first floor, in other words, when you're sitting in the dining hall, which has glass on all sides, you virtually see over the courtyard, that subdivides this large cafeteria room into several smaller rooms. You can look from one side across this courtyard to the other side, where the other students are sitting, but it is a view through greenery. Our idea is that pine trees will be planted there in the courtyard.

In your opinion, what is the characteristic feature of your projects?

I think it is the idea that alongside functional and design requirements, buildings should also have high atmospheric qualities. That characterizes my work. This also includes a serious analysis of the framework conditions, that is, with the realities on site.

Are there favorite jobs you are working on: transposing a house in the city or in the countryside into the mountains, for example?

No, not really. I'm one of the few architects who is not specialized, and this very deliberately. I think there's a new challenge behind every task. I take small things just as seriously as the big ones because when you take them seriously, they require just as much work, too. This challenge, that is inherent in each new task, is naturally also what keeps you alert, which is exciting.

Isn't that difficult: that you continually have to gain insights into new things? For example, a church is a space that must function in a completely different way than that of a residential building.

The aim is to create rooms and spatial atmospheres. This is the recurrent leitmotif. The other things, functions, their details can change again and again for single-family homes as well. So it goes without saying that you adapt to that. The locations are always different anyway. That's why I do not find it tough, but instead enriching that different tasks exist.

You're a successful architect.

How do you become one?

My time as a student was marked by work in large work rooms. We were 240 first-year students, spread over several design/drawing halls. That's where we sat shoulder to shoulder and we worked off the entire exercises. That was really good because this enabled a lively exchange to take place with the other students. Today, I'm still in touch with a lot of the people who I studied with. And from the graduate studies as well, the intensive work situation especially sticks in my mind. We were able to apply for working space on Richard-Wagner-Straße so that we could work on projects there. The working atmosphere was very close there. We gave each other advice, but also spurred each other on and talked about architecture. Quite often, we didn't just stop working at six p.m., but sat there until midnight. Dealing with a matter so intensively provides the opportunity to ignite enthusiasm for a course of studies or profession.



Andreas Meck is committed to TUM's architecture museum, where he served as chairman of its support association until 2018. It is the largest special collection in Germany and has a huge fan base.

You call yourself an “architect of vocation and passion.” So what brought you to architecture?

(smiles) Most people answer a question like that by saying they already played Lego when they were little kids. To be sure, I did that, too. But it wasn't the case that I knew right from that start that I'd become an architect. I had a wide array of interests and in my view, studies in architecture from a cross-sectional angle, was the course of studies that took most of my interests into account in parallel. Undergraduate studies at TUM were relatively prosaic and especially gave you basic knowledge, but that's what I'd decided to do, and at some point, I was then simply ignited by this enthusiasm and noticed: I have fun doing this, I want to do this, this is my cup of tea.

Are there experiences from your studies from which you can still tap today?

We learned an incredibly huge amount of facts. At that time, this was a really good foundation to be able to build on this later in the own office. This taught me a lot. For teaching, I especially took along project work as a very positive experience from my time at TUM. It plays a very big role in my work as a professor today.

When work is fun, it's then, so to speak, a hobby, right?

What motivated you then to go into university teaching alongside your work as an architect?

When I started up my own business, I realized relatively soon that besides work in the office, one aspect was now missing: the opportunity to share experiences with others and to think about things theoretically, too, that is, to put my focus on tasks at other levels. That's why I accepted teaching assignments, which then lead relatively quickly to the professorship at the University for Applied Sciences.

And you enjoy working with students?

Yes, I greatly value the direct contact with students and the discussions with them. It inspires me to think about things in a different way again myself. This is the freedom that a university offers: being able to try and sound out things, taking a risk – this isn't easy later in everyday professional life. Together with the students, I enjoy working on issues for which there is no room in normal day-to-day office life. And this is exactly what students are looking for: teachers who come from actual practice, who can convey things to them, which are current and provide free spaces at the same time.

What do you do with your time when you're not working?

I try to focus on building culture. I also have a number of engagements outside of the office, I advise cities and communities in advisory boards and design councils. I sit on competition juries and am, for example, committed to TUM's architecture museum. I think it's important to deliver my contribution here, too.

Don't you think that is part of your work?

No. When work is fun, then it is, so to speak, a hobby, right? You mentioned the word vocation before. I think that's really good. I like that more than profession. I say this to the students all the time, too. Vocation translates into enthusiasm for something, and I mean when you're ex-cited about your job, have fun doing it, then there is no separation between work and leisure time, between job and hobby.

What is the best thing about your job for you?

The best thing is certainly that I can deliver a contribution to building culture. So buildings that have turned out successfully, which are erected in the cityscape or site's landscape and positively contribute to those who pass by and to those who live in and use the buildings. I think this is a wonderful aspect of our profession.

What are your feelings when you, yourself, pass by the homes you've built? Do you sometimes drive to them specifically?

Not that often, I must admit. I'm someone who is future-oriented and interested in new tasks. But of course, it is the case that I'm repeatedly confronted with my earlier works, sometimes by chance, sometimes due to follow-up orders, for example, adaptations to the building after years of changes in use. Then I take another look at the buildings. For me, it is important that buildings age particularly well. This is a central concern of mine: that you don't make trendy things, but instead try to build things so that they can grow old with dignity over time. This does still actually work very well for many of my buildings.

What does good architecture look like for you?

Is there a most beautiful building in the world?

That's a tough question. There are lots of beautiful buildings. Right now, I couldn't say which one impresses me the most. I've learned something that tends to be different: that alongside architectural icons, it is actually quite often the everyday architecture that is far more decisive. That is to say, the rooms in which we work and live each single day.

Is there such a beautiful room for you?

Yes, as a matter of fact, that is the University of Munich on Karlstraße, a building from the 1950s, crafted by well-known architects of that time: Alois Seifert, Rolfter Haerst and Franz Ruf. The building has a wonderful atrium. And I really look forward to each day when I work there: going through this atrium, soaking up the atmosphere, seeing the students in the galleries, the light, the floor coverings. Those are such places that, alongside

the major architectural icons, make my life better, and I think this is great, that is a beautiful place for me.

As an architect, you're very successful and have already achieved a lot. What is the next challenge for you?

I've also been working as an urban planner for quite some time now and in the process, I deal with the planning of built urban structures, starting with the city on to by all means smaller settlement structures, and very deliberately also the question of moving to the country, that is, to outdoor nature.

Urban planning is especially a challenge for metropolises like Munich.

Yes, urban planning in Munich needs good and, first and foremost, creative solutions for the missing living space. Living is a term that is relatively hard to define. Everyone has a different understanding of this. The days when only classical family structures existed are outdated. To-day, we're talking about mosaic life stories and patchwork families. But construction of residential housing still assumes that there is either the single apartment or the 3-room apartment for parents with a child. Construction is often done according to traditional standard layouts: kitchen, dining room, living room, and the bedroom. That is somehow bypassing the future.

You provide several counter-models to standard architecture with your drafts, and are therefore one of the most sought-after architects in Germany. How do you deal with your success?

Awards and recognitions are always nice because you get a positive response to the work you've done. In principle, however, what interests me more is doing something, designing a building, instead of keeping an eye on prizes. After all, prizes do not have anything to do with the real order situation. At the end of the day, work today isn't that much different for me than it was when I started my career: you must make your best efforts for every contract because you start all over again from scratch each time with a project. This is the demanding, but also the wonderful thing about architecture.



PROF. ANDREAS MECK

Degree in Architecture 1985

Andreas Meck studied architecture from 1979 to 1985 at TUM. Following studies at the Architectural Association in London, he founded his first architecture office in Munich in 1989; the firm meck architekten has been active since 2001. He has been working as a registered urban planner since 2008, too. Among others, his works include the library and lecture buildings of the Bauhaus-University in Weimar (2005), the Catholic Dominikus Center (Katholische Dominikuszentrum) in Munich-Nordheide (2008) and the Memorial for the Federal Armed Forces (Ehrenmal der Bundeswehr) in Berlin (2009). Currently, Andreas Meck is managing the new construction of the cafeteria on the TUM campus in Garching. In addition, he's actively involved in the Support Association of TUM's architecture museum, where he was chairman until 2018. He was an assistant for the chair of interior design and drafting at the Academy of Fine Arts in Munich, took over the professorship for drafting and structural design at the University of Applied Sciences Munich in 1998 and since 2013, he is also the dean of the faculty for architecture there. In 2015, he was awarded with the architecture prize of the state capital Munich. In the process, the jury underscored his keen sense for the material, spatial effects and the inclusion of light. He won the competition for the new cafeteria building in Garching, among other reasons, due to his integrative, urbanistic approach and a "powerful, clear-cut and intensely room-focused architectural language."

ONE ISSUE, SEVEN ALUMNI

ANDREA BÖR | INTERVIEW



UNIVERSITY CHANCELLOR

ANDREA BÖR

**Work and
family were
always equally
important
to me.**

The chancellor of FU Berlin about her career decisions and her special role as the first woman in management board committees.

Andrea Bör lives her dream of children and career: the graduate engineer holding a PhD is not only responsible for an annual budget of around half a billion Euros as chancellor of the Freie Universität Berlin. She is also active in a wide array of honorary positions and has four children. How the 48-year-old has managed to successfully gain a foothold time and again professionally in entirely male domains, what she learned while doing so, and what had to fall by the wayside, she reveals all of this in an interview with KontaktTUM.

Dr. Bör, you were at TUM for altogether 18 years, you studied and worked here. What is it like for you being here today?

It's a little bit like coming home. Lighting mood, the smell, names – everything is familiar and well-known. I'll always have a special relationship with TUM. In addition, my family lives in Munich. That's why the sense of home is due to family reasons, too.

I was a dazzling personality in a male domain.

What brought you to TUM then, in 1990?

A really typical career for an engineer (laughs). Previously, I went to an all-girls only school here in Munich. After graduating from high school, I had vocational guidance at Siemens, and the man in charge of student contacts thought I should study electrical engineering, that would be more feminine than mechanical engineering. I thought a little more feminine is surely good and I enrolled. I had no idea at all of what I was getting myself into.

What do you mean by that?

Not only was I just one of a handful of women in our degree program, but I also had to undergo an operation due to a torn ligament right when the second week of studies started, and I was on the go on crutches from this time on. So almost impossible to overlook... a bird of paradise in a male domain.

Was this special role difficult for you?

It was irritating at the beginning. In the 1200 lecture hall, people still whistled then when a woman walked in. There were ten of us in our learning groups, nine male colleagues and myself. But contacts made then are still maintained today. One of my fellow students

even became the godfather of my youngest son, another one met his future wife at my birthday party.

Was the job counselor right?

Did you enjoy your studies?

Absolutely. Mathematics was exactly what I wanted and it was application-oriented. I wasn't the very best, but I was there in the upper third. I got through the intermediate exams without any problems and that definitely had a selection function at that time. Studies were extremely important to me and I was very conscientious and reliable.

You became pregnant in the sixth semester.

Yes, and my firstborn son was lying in his baby seat under my bench. We mastered the lecture together and apparently, this stirred his interest in mathematics (smiling).

Was he always asleep?

He was very quiet and slept a lot, but of course I knew which times worked. It wasn't as easy with my daughter, who I had when I was in the tenth semester. Breastfeeding did make it possible to handle her restlessness quite well, but I once caused considerable embarrassment for my professor, who surprised me in the faculty library – with my child at the breast.

Breastfeeding in public was unusual in your day, or not?

Yes, but this was the only way that I could attend all key lectures. Those were veritable luxury events that I treated myself to as a new mother.

What does your husband do professionally?

He earned his PhD at the Institute for Wood Research, which now belongs to TUM, too. When I started my doctorate and had a full-time job, he started up his own business. In this respect, we swapped roles. I was regularly at the professorship, he took care of the children during the day, and I took over the night shifts.

What made you opt for a doctorate?

After my studies, I wanted to work in the industry. But in fact, it was hard to make it clear to male interviewers in a job interview that a woman with children can definitely do her full job. So I decided to stay at the professorship.

Initially, you were active academically; later you were the consultant of the vice president. Which jobs did you have there?

Together with another colleague, we managed the large-scale IT project IntegraTUM, where a user-friendly and seamless infrastructure for information and communication was established at TUM. That was a consultant position plus the work as project manager for me. Exactly to my liking: We had to manage 30 IT employees, and the project had a specialist background. Thanks to Professor Arndt Bode as vice president, I was able to gain first insights into higher education policies at the same time. This undoubtedly paved the further way for me towards science management.

In what way?

As a rule, students and doctoral candidates hardly have insights into university administration and its regulations. At that time, I was already involved in a student union and later on as an academic assistant in the specialist field, but it is something different to share responsibility for making decisions or even to bring in concept proposals.

You were appointed managing director of the faculty directly from this position.

Yes, this was on the recommendation of Professor Bode. The die is therefore cast that I am interested in and aim to qualify for positions in university administration.

As of 2008, you were the chief information officer at the University of Saarland, starting in 2011 chancellor of the University of Passau and since July 2016, you're the chancellor of the Freie Universität Berlin. For all positions, you took over the reins from male predecessors. A problem or a privilege?

It was a very, very good school and luckily, I never had any fear of making contacts. The studies, but also the seven years at the chair, also as the first female academic assistant, were extremely educational for me. In the process, it helped a lot that I earned my doctorate in a specialist field that was accepted by male colleagues. And when I think about the University of Saarland, where I managed the computer center, it becomes clear what this means: 99 percent of the employees were men and as a rule, older than me.



Andrea Bör visited her old office at TUM. It's in the so-called northern part of the premises, where the Faculty for Electrical Engineering and Information Technology is housed.

And what was it like when you became chancellor?

At the University of Passau, I was the first woman in university management at all. Previously, you only knew presidents, male chancellors and vice presidents. This even led to discussions as to whether colleagues would have to adapt their language or no longer be able to freely talk about certain issues. That wasn't an issue for me. I had trained my special role as the only woman

for two decades now. Of course, there were some unpleasant situations, too. But: What doesn't kill me makes me stronger.

You have been chancellor at the Freie Universität Berlin since 2016. What are your tasks?

As chancellor, my key task is to keep the university up and running. I'm responsible for re-sources, personnel, finances, rooms, and I'm the superior of academic support staff. I support the president in his endeavors and help implement and further develop the university's overall strategy as part of the executive committee. As budget officer, I'm in charge of an annual budget of approx. half a billion Euros.

My children have taught me how to set priorities.

What do you enjoy most about it?

That this job is so diverse: construction topics, IT topics, personnel topics, strategic dimensions, teaching development and a whole lot more. I deal with highly specialized horse scientists, on to the sensitive philosophers straight through to analytical team players with the most multifaceted personalities. This is exciting and challenging.

Are there aspects you feel are a burden?

Just like in every large organization, not everything works seamlessly each single day. Some-times, it's almost highly dramatic like in 2013 during the flooding in Passau, when we had to close the university for three days. But at the end of the day, such a decision and the responsibility for it is my job.

What is the core competence a leadership person should have in this sector?

The person must be able to work under pressure and must not lose their nerves. This is one of my strengths: I'm very calm in extreme situations, and think, act and decide then in a focused way. Incidentally, this is similar in the family area, too.

Are you a perfectionist?

In a sense, yes, but my children have taught me how to set priorities. When my appointment calendar is full and someone urgently needs help, I have to respond flexibly and simply be avail-able. I continually have to adapt to new situations, topics and personalities and make corresponding decisions. Like a doctor who makes a diagnosis and selects the right therapy. Always in the thick of action.

How do you strike a balance between everyday working life?

With my family. On weekends, I'm a mother, wife and housewife. And I do some sports for the physical balance.

Your family lives in Munich, you live in Berlin.

Do you commute home every weekend?

My husband, my youngest son and I commute between Munich and Berlin. The three big ones are already going their own ways.

Do you have the feeling your children will claim the modern family image that you live out for them later on themselves, too?

Yes, I think so. My husband and I – we've now been married for 25 years – have split the roles up between ourselves very well.

Do you have any vision as to how the world of work could be made even more family-friendly?

Flexibility is the be-all and end- all, but also tolerance on all sides. A wife cannot be a perfect mother and career woman at the same time, that doesn't work purely in terms of time. What helped me was being able to blend out my family while I was at work, but my children were still well taken care of – by my husband, grandparents, the day nursery, school. That's why it is so important to provide high-quality family offers with qualified staff so that men and women can realize their professional objectives themselves.

What do you mean by this specifically?

A qualified teacher can take over day-to-day care of children in case of doubt just as well as or better than the working mother. She or he cannot and should not replace a mother, but why should a child not be taken care of for three, six or eight hours a day by a professional who has learned the right pedagogical concept to promote and encourage in an individualized way. For me, work and family were always on an equal footing. Each individual must embrace this, and then it will span broader circles and reach out to more and more people.

TUM Alumni Maren Heinzerling (Degree in Mechanical Engineering 1964) about her mentee Andrea Bör:


“Andrea Bör didn’t need my support, she was already incredibly tough – right from day one.”

Railroad engineer Maren Heinzerling has been committed to women in natural sciences for decades now. In 2017, she received the German Citizen Award for her life’s work. Click here to read her story: www.150.alumni.tum.de/maren-heinzerling-en

It must be backed by the partner and co-supported and sustained in the family. Role models are very important as well: I was a mentee myself in various programs and was later active as a mentor here at TUM. By the way, my first mentor was TUM alumna Maren Heinzerling.

Maren Heinzerling was your mentor?

Well that’s a wonderful story.

 In 1990, she organized the first Munich Girls’ Engineering Day, and I was allowed to help work in the organization as a high school graduate. Maren Heinzerling accompanied me through my studies. To be sure, she was shocked each time when I was pregnant again, but she supported me. And when I went to Berlin, too. Her advice, her paragon are both very important to me. Role models are especially important for women. Men usually find their role models more easily.

Is there something you wish for regarding family or career?

That all family members are happy. I want my children to find their own way and that I can support them in doing so. I want my partnership with my husband to continue to work so well. And professionally, I want the Freie Universität Berlin to continue to set accents as a university of excellence, and that we’re successful in the new excellence strategy as the Berlin network, too.



DR. ANDREA BÖR

Degree in Electrical Engineering and Information Technology 1997, PhD in 2005

Andrea Bör was born in Munich in 1970 and after graduating from high school, she studied electrical engineering and information technology at TUM. She was the first female academic assistant at the chair for communication networks and in 2005, she completed her doctoral studies in information technology. Afterwards, she was a consultant for TUM Vice President and CIO Prof. Dr. Arndt Bode and managing director of the Faculty for Electrical Engineering and Information Technology. 18 years later, she left TUM to take on the position of chief information officer at the University of Saarland. She was appointed as chancellor of the University of Passau in 2011 and she has been the chancellor of the Freie Universität Berlin since 2016. Andrea Bör is married and has four children, two girls and two boys



OLYMPIC CHAMPION

KLAUS WOLFERMANN

**I barreled
through
like a
madman.**

The javelin thrower discusses the best moment of an athlete's life and the question of when too much is enough.

A mere two centimeters – that’s all Klaus Wolfermann needed for victory. At the Olympic Games in 1972 in Munich, the javelin thrower defeated the Latvian favorite to win gold and write sports history. Klaus Wolfermann has always strived to push his physical abilities to their limit and beyond.

Mr. Wolfermann, what was the feeling like when you first held your gold medal in your hands?

Suddenly everything felt completely different. I was no longer just one of three up there – I was standing on top of the podium. The national anthem began. A shiver ran down my spine. Even today, when I talk about this moment in schools or at lectures or see pictures from that time, this feeling stirs a little bit within me.

When did your fascination with sport begin?

My father was a blacksmith and also a successful gymnast. He always dragged me along with him to gymnastics halls. That’s how I caught the sporting bug from him. From then on, that was my lifeblood. I wanted to find out what natural abilities I possessed and how far I could get with them. I did gymnastics until I was around 14 or 15 years old. Then I also started handball. It was already clear then that I had a strong throw. And in athletics I first devoted myself to the pentathlon and decathlon, then later to the javelin throw.

Was this the reason why, after leaving school at the Bavarian Sports Academy, which was integrated into TUM in 1972, you trained to become a freelance sports teacher?

I had previously trained as a toolmaker in Nuremberg. During my training I also attended school to further my education. At some point I realized: this profession is good, but it might impede my progress in sports. So, I set myself a new goal: I wanted to study to become a sports teacher in Munich. I started that in 1965. And fortunately, at the same time, my athletic abilities also grew.

But after that you fully entered working life. How did you manage to keep up your training?

A lot of luck and also stamina. After completing my studies, I got a job as a sports teacher at SV Gendorf. There I was able to develop my abilities not only in terms of my career as a teacher but also as a competitive athlete. I worked many, many hours a week. But I was able to arrange my working hours so that I could train twice a day: two hours in the morning and between two and two and a half hours in the afternoon.

That sounds exhausting.

The volume was heavy. I had days when I was working 14 hours and then going to training. I was not home before 10pm. It amazes me now that I managed to endure this. But I can say that this is one of the gifts that God has given me: endurance, insane persistence – when I’ve really got my teeth into something like a terrier, then I do it right, come hell or high water.

**I knew that I had
get through it.
That’s the only
way to learn.**

With success! In 1968 at the German Athletics Championships you qualified for the Olympic Games for the first time.

I became the German silver medalist and that qualified me for the Mexico Olympics. It was great to meet so many athletes from all over the world, to watch them train and to learn from them. Unfortunately, over there I only achieved thirteenth place in the qualifying round and was therefore eliminated – the first twelve went on.

How did you keep up your motivation after that?

I knew the next Olympics would take place in Munich – my hometown, if you like. I wanted to be right up there at among the best. That was the ultimate goal for me. So we planned those four years meticulously. I always wanted to dive straight into the lions’ den, to go where my opponents were competing. So I went to the big competitions in Helsinki, Stockholm, Oslo and Riga – where the big international events were happening.

How successful were you in these competitions?

It’s not like I would have won there in any case. I wanted to test myself, wanted to see where others were making mistakes, where their weaknesses and my strengths

were. In the early years it often was a bit of a struggle. A lot of the time I just wanted to fly back home. But I knew that I had to get through it. It is only way I could learn and then somehow find my own way.

What was your way?

The year before the Olympic Games in Munich was the test year. Things weren't looking so bad. I had worked my way up through the rankings and improved the German record three times that year: 80, 85 and then 87 meters, all world class performances at the time. But the world record was over 90 meters! And this world record was held by a man who had already won the gold medal in Mexico: Jānis Lūsis, a Latvian athlete. I took a lot of pictures of him during these preparatory years. He was my idol. He had won all competitions in the year before the games. He had thrown the world record of 93.80 meters a few times – a huge distance. For me, unattainable.

Still, you managed to beat him. How?

My coach warned me not to do any more training than we had agreed in the training plan. But I couldn't stop myself. My training volume just got bigger and bigger. This happened because I was just really enjoying it. I kept increasing it bit by bit. I just wanted to do it and I was having a lot of fun. At the same time, I listened to my body very carefully – you can have an incredible degree of control over your body for a certain amount of time. One and a half weeks before the Olympic Games, there was a small evening competition here in Munich. That's the first time I threw over 90 meters.

That was already getting close to the world record.

I couldn't believe it at first, although I knew that I had thrown the javelin well. You feel that when it's out there in the air you are almost controlling it remotely. It went 90.24 meters that time. Afterwards, a woman came up to me with her daughter and wanted an autograph. It was an amazing feeling – I actually wrote down the wrong distance: instead of 90.24 meters, I wrote 90.48 meters.

Seriously? That's your Olympic distance!

Unbelievable the kind of strange coincidences that can happen. But it was somehow an omen too. Everything was just right. And then there was the matter with the clock.

The clock?

I had already trained a few times in the new Olympic Stadium in Munich before the Olympic competition and I won the German Championships there. In that sta-



The victory leap: at the Olympic Games in Munich in 1972, Klaus Wolfermann defeated the top-rated world record holder Jānis Lūsis in the javelin throw and won the gold medal.

dium back then, just as it is today, it was very difficult to throw javelins because of the plastic roof. The wind comes in over the stands and causes turbulence under the roof. The javelin only flies properly if you throw it at a particular angle. I had discovered that beforehand. There was a scoreboard on the other side and a clock just below it. That was the fixed point for me. Of course, I had told the other athletes – I didn't just keep this information for myself.

So you aimed for the clock?

I fixed my gaze on it as I threw. In the "crossover" phase, your body tenses and builds up the energy for the throw. But you must keep your eye on the tip of the javelin and it must point in the direction that then determines the angle of the throw. For me, the tip was

pointed exactly to this clock. That was a throwing angle of about 32 degrees. This sent the spear on a long trajectory.

And that's exactly how you threw your victory shot?

I was so motivated on that day, I had a scary level of concentration. Friends were standing behind me screaming and roaring, but I heard nothing. Nothing. I had my shutters battered down and I just barreled through my throws like a madman. On my fifth try, I risked it all. I extended my run up by a few meters, I went faster, a huge risk – I could have collapsed like a house of cards in the throwing phase. As the javelin went off I sensed how far it would go – it was perfect. I knew it was going a long way. The scoreboard then confirmed that: 90.48 meters.

I want to test how far I can get with my abilities.

But your rival Jānis Lūsis had the next throw.

I experienced a sense of great fear and hope and everything mixed together. But his throw was two centimeters short of mine. At first, there was an explosion inside me – a pleasure, an outburst of joy. It has to be said that there was a very important factor in my victory: it was the first time that digital measurement was used. You can imagine, if they had used the tape measure like they used to – what with the molehills, bumps in the ground – it might have come out differently. Afterwards I got a copy of the report: it was exactly 2.02 cm. Unbelievable.

What was your first reaction to the victory?

I was in a state of shock. I went over to Jānis Lūsis first and apologized for winning. "That was not planned," I said. He was clearly disappointed, no question, but he bore it with dignity like a great competitor. We have been friends ever since.

Were you often recognized on the street after that?

You bet! I went on holiday immediately and when I got home, there were mountains of letters asking for autographs. You have to get used to it – it's a completely different life. There were photoshoots without end and one interview after another. It was difficult because I had to continue in my job, to find normality again. But normality – that never really came back.

You continued your athletic career as a competitive javelin thrower but then you suffered a serious injury. How was that?

May I say the Bavarian word *beschissen* (crappy)?

You may.

I invested too much ambition in the years after 1973. After my world record of 94.08 meters, which I achieved one year after my Olympic victory, I thought it would go on and on. But I exceeded the limits of my resilience. It was a week and a half before the Montreal Olympics. At the last competition before in Zurich, I achieved equalization and I was putting on my clothes afterwards when I suddenly felt a sharp pain in my elbow. Part of the bone had been chipped off and it had become trapped. Surgery was the only thing that could be done. I unfortunately experienced the Montreal games in front of the TV. After that, I threw for another two years, but then it was over.

The whole thing is never quite over with you, though – you then competed in the bobsled and in car racing.

I decided to try as many sports in my life as possible. And when I like one, I keep doing it a bit longer. That's always what I do – it's the theme of my life. I want to test how far I can get with the abilities that God has given me.

Is your family also sporting?

My wife was a springboard diver and my daughter did a lot of athletics and rode horses. When she was training in athletics, my daughter was often asked teasingly, "You're a Wolfermann and you can't throw?" But she was very good at running and jumping, a good hockey player, an excellent skier. Today I do a lot of sports, often with my granddaughter. We have a very close relationship.

What do you do together?

She plays golf with me, for example. I have to make an effort now, she has gotten so good. Whenever her school day ends two hours earlier, she calls me and says, "Grandpa, pick me up, we're going to go skiing in Garmisch." And now she even helps me with my events and fundraising events.

What events are those?

After my active sports career, I had a very successful 13 years at Puma as the head of promotion. After that I founded my own agency. We are still organizing events to this day, especially for the *KiO-Kinderhilfe Organtransplantation* (charity for organ transplants for children).

The quiet life of a retiree is not for you?

The work is incredibly fun. I do it with my wife and it keeps us young. I'm lucky to be part of a community of former athletes who are very involved. At each event, I have between eight and 15 prominent individuals of my generation who support me. I really take my hat off to them.

Athletes such as the former handball professional Heiner Brand and the high jumper Ulrike Nasse-Meyfahrt come because they are inspired by the cause. What motivates you to organize these events?

The most important thing for me is that we can help others who are worse off than us. When you see all the things that children can do again after a successful organ transplant, including sports, with their eyes sparkling, it's really fantastic. We have secured 3.5 million euros to this end solely through our activities in recent years. I think that's a very worthwhile thing and a good story. Everyone helps together, my granddaughter as well. Lovely, just lovely. If this continues, it's more than I can wish for.



KLAUS WOLFERMANN

State approved freelance physical education teacher 1968

Klaus Wolfermann completed his training as a freelance sports teacher at the Bavarian Sports Academy (BSA), which was integrated into the TUM in 1972. His greatest athletic success was victory in the javelin competition of the 1972 Olympic Games in Munich, where he defeated the highly favored world record holder Jānis Lūsis with a throw of 90.48 meters. Klaus Wolfermann was German champion in the javelin six times in a row. He was proclaimed German Sports Personality of the Year in the Federal Republic of Germany twice and European Athlete of the Year once. After the end of his career as a javelin thrower in 1978, Wolfermann was active as brakeman and pusher in bobsled and in 1979, in the four-man crew under the pilot Georg Heibl, he achieved German runner-up and fourth place in the European Cup. Klaus Wolfermann's fame attracted the interest of sporting goods companies. In 1980 he accepted a position as head of the promotion department at Puma and he travelled around the world in this role. Today, Klaus Wolfermann runs a sports marketing agency and is the chairman of FC Olympia, an association of German medal winners who participate in football, volleyball, golf and other events for charitable purposes. He is an ambassador for the Special Olympics, the only IOC-authorized sports association for mentally disabled people. He was also an ambassador for Munich's 2018 winter Olympics bid. He has been married to his wife Friederike since 1967. He has a daughter and granddaughter and lives in Penzberg in Upper Bavaria.

ONE ISSUE, SEVEN ALUMNI

EDMUND STOIBER | INTERVIEW



POLITICIAN

EDMUND STOIBER

**I never
thought about
my career.**

“Can you also write speeches?” Fortunately, Edmund Stoiber didn’t say “no” in 1971! The former Bavarian Minister President talks about the beginnings of his political career.

Much is known about Edmund Stoiber – especially from his time as minister president of Bavaria. But how did it happen that a Bavarian James Dean fan, who actually wanted to be a lawyer and took additional courses at the Bavarian School of Public Policy, became one of the most important contemporary politicians? “Coincidence,” says Edmund Stoiber. Could everything have turned out differently? Yes – if his skills and achievements hadn’t made important people trust him in the right situations. This is how his success story developed step by step. What were the turning points and who were the key figures? We follow the trail ...

Dr. Stoiber, today you return to the Bavarian School of Public Policy, where you studied more than 55 years ago. How did you become a student here?

I actually wanted to become a public prosecutor or a lawyer and decided to study Law. But since I was also very interested in politics, I started studying that at the same time. There are certain links between Political Science and Law. In 1962, I started to study at the School of Public Policy, at that time in the elementary school in Amalienstraße. The lectures were from five o’clock in the evening to nine, ten – sometimes half past ten. The students were a special species, a highly interested and motivated student body. And it was also particularly interesting because there were people who did not have their Abitur (high-school diploma allowing entrance to university). In contrast to Germany today, only about three percent of the population received the Abitur every year at that time.

Did you finish your studies in Political Science?

No, Law always took precedence. I do not come from an academic household. My father was a technical salesman and my mother worked in a chemical laboratory. It was important to her that I study, though it was incredibly difficult for the family economically. School fees and train tickets had to be paid. That was a special effort given the meager funds we had available then – my father was unemployed. But if you get the opportunity to study, you have to use it. And I thought, “If you pass the exams with good marks, then you have a good chance, too.” That’s why I focused on the state exam. I also worked alongside. Of course, it wasn’t possible to combine everything, so I had to suspend my political studies after five semesters. I wanted to take the exam at the School of Public Policy later, but never completed my studies. I always say, “I did not finish it academically, but practically.” And I’m proud to have studied here.

Is it true that as a teenager, you weren’t interested in politics? James Dean and Elvis were your heroes, not Konrad Adenauer.

Yes, James Dean and Elvis Presley, those were my teenage idols. Let me put it this way: I come from a conservative household and experienced all the problems of post-war society, including poverty. Many people didn’t want to have anything to do with the past after the war and were not so political. They had enough to do with their lives.

But they nonetheless cared about your political opinions at home?

Yes. That was unusual. We sat in front of the radio and followed the Bundestag debate on the introduction of the Bundeswehr. That was one of the most passionate debates in the German Bundestag that I have ever heard. And I was “obliged” to listen to it because we only had one living room and three children together in one bedroom. I was eleven years old then. My sister Hannelore was seven years older and was in the final year of high school. She followed the debate with great interest. Dominant as she was, she turned on the radio. The end of the war was only seven years before. Many prisoners of war were not yet home and there was endless suffering everywhere. In my school’s annual report, more than half of the students’ fathers were listed as “missing” or “fallen.” At that time there was the biggest demonstration against Adenauer. There has never been a larger demonstration in Germany.

If your sister had not been so interested in politics ...

Perhaps I wouldn’t have turned to it myself. But it also interested me then. My sister explained what it was about. We had a very political household. My father discussed his views with us. My mother was a very conservative Catholic. Maybe the seed was sewn there. The consequence of this was that in 1958, at the age of 17, I joined the Junge Union (young conservatives) in

Rosenheim. But I was more of a member on paper than anything else. I did not have a car and the train connection was not so good. In 1962, when I started studying, I joined the Christian Democratic students' organization.

When you passed your state exam, you started in the newly founded Bavarian Ministry of the Environment. During your studies, did you plan to work in a ministry as a lawyer?

If you had good grades on the state examination in Bavaria, you automatically received an interview invitation from all ministries. Since I knew that, I thought back then that I could at least start in a ministry at the beginning and later take on another career. But, honestly, I did not think I would have such a political career.

You were politically active and did not think at the time of a political career?

Not really. After my oral exam, a department head from the Ministry of the Environment came to see me and said he was looking for two lawyers for the legal department. Actually, I wanted to go to the Ministry of the Interior or the Ministry of Finance – this was the classic way. But the Ministry of the Environment had been reconstructed at the time, and I thought I might have more possibilities and opportunities there.

During the job interview at the Ministry of the Environment you may have been asked the most decisive question of your political career.

Yes. The conversation was a little different than I expected. The personnel officer said he was very interested in me because of my exam grade and CV. But most of all he had seen in my papers that I was a member of the RCDS and the Junge Union, and he suddenly asked me: "Can you also write speeches?" I was a bit perplexed and replied: "I haven't ever done it. I have already given a few speeches. But I do not know how to write speeches. I'm primarily interested in your legal department." But he said, "No. We're building a political department right now, and we need young people to deliver excerpts to the minister."

You started as an assessor. Then came the day when you had to write your first speech for the Environment Minister, Max Streibl.

That wasn't so easy. I had 14 days. The topic was "Regional planning and spatial planning using the example of Middle Franconia" – a complicated topic for someone starting from scratch and with no idea about regional planning. I had big problems. The new Ministry of the Environment still did not have any of the basics in place and necessities in place, nor many documents.

So I went to the state library, which I knew from my studies, and I made myself knowledgeable there.

And how did it go?

After I handed in the speech, the secretary of the minister reported to me and said that Minister Streibl wanted to speak to me. I was briefly shocked and sat petrified in my room. I thought, "For God's sake, what did I do?" When I finally got to Max Streibl's office, he said, "Oh, you're the one. I wanted to talk to you anyway." He knew me as a foot soldier, so to speak, of the Junge Union. At some point we had met before. Then he said



For a conversation about his career, Edmund Stoiber returned to the School of Public Policy, which has been a part of TUM since 2014.

Read more at: www.hfp.tum.de/en/university/history/

that he really liked my speech and asked me, "Do you want to work for me in the ministry office?" I said, "Yes – that's a special challenge, of course."

You accepted the offer?

Yes. And it significantly intensified my political activities. For many years, Streibl was General Secretary and District Chairman of the CSU of Upper Bavaria.

He was someone who embodied the future at that time, including that of the CSU. That's when I got into situations and had to deal with people I would never otherwise have had anything to do with.

For example?

Franz Josef Strauß. He was then the fiscal spokesman for the CDU/CSU parliamentary group and party chairman. He wanted to talk to Max Streibl but he couldn't reach him. Suddenly I had him on the phone. And when you suddenly talk to Franz Josef Strauß as a young man about a topic that was on the front page of newspapers at the time – that's something special. This also meant that I became more politically involved and developed.

That really sounds like a decisive experience for you.

I'm surprised I still remember. But those were my first big steps. If I had stayed in the legal department, I might have become a ministerial councilor and long since retired. I don't know if I would have gone into politics.

So, while you worked for Max Streibl, you started to establish yourself on the political scene in the CSU?

Yes, I was very close to Max Streibl and grew more and more into politics. In 1973, as a young man, I became a candidate for the state parliament of the CSU. This was also a coincidence. I came from the small district Wolfratshausen. The majority of the voters in the constituency of Miesbach-Wolfratshausen were from Miesbach, and my opponent was the district chairman of the CSU Miesbach. He was a successful young man. I was chairman of the Junge Union of Bad Tölz-Wolfratshausen. Regional differences clashed. In the end, I was proposed in a hard assembly that lasted six hours. That was no longer academic politics, but practical politics. In the subsequent election, I was elected as a member of the state parliament. As an office manager for Streibl, I knew my way around and was also his personal speaker in the state parliament. This allowed me to establish myself very quickly in our faction. Only four years later, Strauß surprisingly appointed me general secretary.

You have already had impressive career so far though, so it can't have been a huge surprise?

Yes, it was. I hardly knew Strauß. Once a year there was a meeting with the officials of his former constituency. He might have noticed me there. When I was in the state parliament, after we lost the federal election in 1976, I declared publicly: "Strauß must become Minister President." The established members of the

group thought otherwise. I was ready to endure their displeasure. In 1978, Strauß actually became Minister President. Some time later – I had already been elected to the parliament for the second time – the head of Strauß' office came to me and told me to come around to Strauß' home in the evening. There, Strauß told me that he wanted to make me CSU General Secretary. I almost fell off my chair. I said I needed to think about it.

How did he react?

He reacted in a quite surly fashion. I said that I wasn't sure if I would be up to the job. Maybe it would be wiser if I first became a state secretary. He looked at me completely dumbfounded. "How did you get that idea? State secretaries, they come in spades. There is only one general secretary."

Was that the moment you realized you were about to embark on a big career in politics?

No, I wasn't really thinking about my career at that moment. But my entry into politics before that – my candidacy to become an MP – in 1973, was a very deliberate decision. From there, I was quickly noticed in the state parliament. Not only because I called upon the incumbent Minister President to step down but because I made very political speeches. Whenever I talked there was always a bit of a hoo-ha.

Five years after that decision you became the General Secretary.

At the age of 36. As General Secretary you go from zero to one hundred. You are then, at that time alongside Strauß, in the big leagues. It meant Bonn and Munich became my fields of work. There were many debates in which I had to prove myself and so I attracted a certain nationwide level of attention. Strauß was traveling a lot and I told him at some point that the situation couldn't continue as it was and that the State Chancellery needed a director. Not the formal deputy minister president, but rather a political director who could represent him. I suggested two veritable ministers to him. He considered my idea good in principle and replied, "You do that." I said, "I cannot do that. I am General Secretary." We were close to the 1983 general election, so it was out of the question that I might step down from that position.

You remained General Secretary of the CSU.

I remained General Secretary and I also became Director of the State Chancellery with 350 civil servants under me. I was Strauß' left and right hand. It was a very busy time, but I learnt an incredible amount. And so it went on and on and on. My subsequent career steps are known.

And on it goes still. This year you turn 77 and you are still active. Is retirement not an option?

I am a lawyer and I represent a number of clients. On the other hand, I am Honorary Chairman of the CSU. I'm not inside the party anymore, so to say, but I'm also not outside. It seems I've become a bit of a legend in the party. As Honorary Chairman and as a senior gentleman, I get somewhat inundated by invitations – despite the fact that I haven't had any official function for a long time. Whether I go depends on my enthusiasm and the state of my health.

Since 2014, the School of Public Policy (HfP) has come under the mantle of TUM. This made you, like all other former HfP Alumni, a TUM Alumnus. You have often supported TUM.

A key experience for me was the 125th anniversary of TUM in 1993. That is when I gave one of my first big speeches as Minister President. The former TUM President Otto Meitinger drew my attention to his successor, the young chemist and Leibniz Prize winner Wolfgang A. Herrmann. I have a tremendous affinity for technology. Innovation is essential. You need to have the courage to change. In me Herrmann found a man who supported his ideas and was willing to carry out a fundamental university reform in Bavaria. Of course, I also always followed the course of the HfP. At first, I thought it was a strange idea for it to become part of TUM, but Herrmann made the argument very persuasively and was therefore able to save the School of Public Policy. Thus, the circle closes, and I sit opposite you today at my former place of study.



DR. DR. H.C. EDMUND STOIBER

Student of School of Public Policy 1962 – 1965

Edmund Stoiber is a lawyer, Honorary Chairman of the CSU, husband, father of three children and grandfather of seven grandchildren. He grew up in a working-class family in post-war Germany in the Upper Bavarian village of Oberaudorf. After graduating from high school, he studied law at the Ludwig-Maximilians-Universität München and political science at the School of Public Policy. In 1968, while completing his legal clerkship, he married his wife Karin. He then completed a doctorate at the University of Regensburg. After his state examination in 1971, he worked in the Ministry of the Environment as an assessor. He began his political career at the Ring Christlich-Demokratischer Studenten (Association of Christian Democratic Students) and the Junge Union. He entered the Bavarian state parliament in 1974. From 1978 to 1983 he was CSU General Secretary. In 1993 he became Minister President of the Free State of Bavaria. In 2002, he was the CSU/CDU candidate for Chancellor in the general election, which was narrowly won by Gerhard Schröder (SPD). He remained minister president of the CSU until 2007. He then headed a European Commission working group for reducing bureaucracy. Currently he represents several clients as a lawyer, he is Honorary Chairman of the CSU and a member of various supervisory boards. He is proud to be a member of the supervisory board of soccer team Bayern Munich. Both during his time as Bavarian Minister President and afterwards, he gave substantial support to TUM. He made it possible to extend subway line 6 to TUM Campus Garching and he helped found the Straubing Science Center. In 2017 he was appointed an honorary senator of TUM.

ONE ISSUE, SEVEN ALUMNI

GABRIELE AND ROBERT HERTLE | INTERVIEW



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GABRIELE AND ROBERT HERTLE

**We are
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for future
generations.**

The two civil engineers talk about their work and their commitment to the TUM University Foundation.

Gabriele and Robert Hertle met while they were both budding engineers studying at TUM. Today, they have been married for many years and complement each other perfectly. They are connected not only through their work at their own civil engineering company, but by their appreciation for finding intelligent solutions to tricky situations, and by knowing what it means to bear the weight of great social responsibility. They have remained close to their alma mater and, in order to support its work, donate to the TUM University Foundation.

Mrs Hertle, Professor Hertle, civil engineering is your lifeblood, your passion. Your two sons have taken after you and become engineers too. Paint us a picture of dinner time at the Hertle's.

Robert Hertle: There's never a dull moment! Three of us are civil engineers, and our youngest son is a mechanical engineer. We talk about work a lot, and our sons often come to me with interesting questions. We discover remarkable new solutions for all kinds of different problems through talking things over with each other.

In those days, you only needed a piece of paper and a pencil to become self-employed.

Gabriele Hertle: We tried to get our children excited about engineering and university from an early age, for example we took them to the kids uni at TUM. The first lecture was in the big Physics auditorium—the kids were impressed.

And what about you? How did you first become interested in the subject?

Robert Hertle: My family is full of civil engineers, so it was an obvious choice for me. Although I did deliberate between Engineering and History after finishing high school.

An unusual choice.

Yes, but then I did my military service and it became clear to me that I wanted to do something where I could be my own boss—something hard to achieve for historians. Civil Engineering was the fastest study route to becoming self-employed. In order to become self-employed in those days, all you needed was a good education, a piece of paper, a pencil and the desire to shape the future.

And how was choosing what to study for you, Mrs Hertle?

Gabriele Hertle: Very different—I'm the first in my family to go to university. My father was a builder and took us to the building site from a young age, so I used to build a lot with my brothers. I realized in school that I was mathematically and technically gifted, so I went with my gut and decided to study Civil Engineering. Luckily, it was obvious in my first semester that I'd made the right choice.

What in particular did you like about it so much?

That the profession is so multifaceted, and that everything we plan, build and design has to stand the test of time. You can't get lost in theoretical trains of thought—you have to figure out how to solve whatever problem is at hand. It's this challenge that gives our profession its unique charm.

What's the first thing that comes to mind when you think about your time at university?

Robert Hertle: The most formative thing, in my opinion, was the attitude our professors instilled in us—that we can solve any problem that comes our way if we only think about it enough. In those days we had nowhere near the resources that are available today, especially when it comes to IT.

Gabriele Hertle: Rather different memories come to mind for me.

For example?

Once, a teaching assistant gave me a strong telling off – far stronger than any of the men got – for a few small inconsistencies on a paper I handed in. The assistant said that as a woman, I needed to be at least 80 % better than the male candidates. That has stayed with me to this day. My choice of clothes was also remarked upon a few times for being too stylish or feminine.

How did you deal with that?

To be honest, it wasn't nice. But it did help me to sharpen my elbows, so to speak. If you can't withstand these kinds of things, if you can't develop a thick skin, then you're in the wrong profession. You need to know how to deal with the people at the building site—you have to convince them that you are just as good and just as tough as any man. That's the only way you'll be successful.

Mr Hertle, after your studies you went on to earn your doctorate. How did that come about considering you wanted to become self-employed?

Robert Hertle: It became clear to me during the specialization phase of my studies that I wanted to immerse myself even more intensely in the subject. Questions relating to structural dynamics, vibration analysis and all those kinds of things, were of particular interest to me.

Who was your doctoral supervisor?

Friedrich Nather, which was a real stroke of luck. Before he came to the TUM, he was the director of the biggest formwork and shoring company in the world at the time and had completely different methods of guidance from any other professor we knew. He took an extremely big leap of faith with us and allowed us to do things that other doctoral candidates weren't allowed to do during their residency.

For example?

Professor Nather served on various European committees, but due to his many obligations he couldn't go to all the meetings, so I was allowed to replace him—for four years. I was a young doctoral assistant, not even 30 years old, but every three to four weeks I would get to travel to meetings in different European cities and talk to the people there who had much more work experience and knowledge than I did. I learned a lot.

Did you consider continuing in research after you had earned your doctorate?

No. Professor Nather broadened our horizons by allowing us to help prepare appraisals, contribute to practice-oriented developments and sit in on interest-



BU: Gabriele and Robert Hertle in front of the "Wall of Honor" in TUM's main building on Arcisstrasse. Donors who have contributed at least 50,000 euro to the foundation have their names immortalized on both the physical and virtual roll of honor.

ing and important meetings, so self-employment was the next logical step because I wanted to use everything I had learned. In fact, almost all of his doctoral candidates went on to become self-employed.

Did you really only need paper and a pencil to become self-employed?

RH: Well, we did have computers back then too (laughs), but obviously not with the facilities that are included as standard today. But yeah, basically not much more than that.

And were you on board from the start, Mrs Hertle?

Gabriele Hertle: No. I had started working at AEG developing magnetic levitation (maglev) technology right after I graduated, so after our son was born in 1991, I resumed my work with them. I was responsible for the load assumptions of the maglev train guideways.

My experience and knowledge were essential to designing the systems' supporting construction elements, so the company made it possible for me to work from home after our son was born. I took our son with me when I had to go in for big meetings, and someone at the office would be asked to look after him. Breaks were taken so I could breastfeed him. Unfortunately, the offices later moved from Starnberg to Braunschweig, which meant the end of my time with the company. After our second child was born I started working at my husband's engineering firm, building it up step by step.

Do you not get on each other's nerves at work?

No, we complement each other perfectly. My husband prefers to not think about anything else when he is working on an important project, so I handle all the organization. My technical knowledge is a huge advantage in making sure everything runs smoothly with our various business partners.

What has been your greatest professional challenge so far?

Robert Hertle: I can still vividly remember a project from the early days because we really had to have faith in ourselves. The project was to design the foundations of over 300-tonne raw-mills for a cement factory in the Philippines. The mechanical engineering company we were working with had a rule of thumb which they had used for a very long time, and which we realized would calculate the required mass for the raw-mills' foundations incorrectly. We were nervous to go ahead and tell the company as they had been around for over 100 years and ours had only been around for two at that point.

What happened?

I called my former professor—Harry Grundmann, now Emeritus of Excellence—at TUM. He is a great engineer and I trusted him. He came to the conclusion “you’re right, they’re wrong,” so shortly thereafter everyone involved in the project met with the board.

And then?

The board asked us if we could design a project that confirmed our predictions. We sat there in that moment sure that we were theoretically right, but not knowing at all how we could prove it. These mills are where the raw materials—such as limestone—required for cement production are ground and dried, so you can’t get inside and observe the process first hand. But what could we do—in those situations you either say yes or no so of course we said yes, otherwise we would have been out of the picture immediately. Solving that prob-

lem was definitely one of the biggest challenges of our career, but we did it.

Gabriele Hertle: The best thing about our job is that there are always new challenges like that one, unlike for mechanical engineers who usually have a system that they refine over and over again. There’s always something new for us. You always have to rethink things—that’s just how it is when you are constantly working with prototypes. It’s really fun.

Do you need to be a talented communicator to be a civil engineer?

Robert Hertle: That’s the other challenge. Engineering often takes a backseat in really big and complex construction projects because there are so many people involved, many of whom have fundamentally different interests. A fair amount of psychology is necessary in order to make such projects work, and unlike in mechanical engineering, once the construction project is realized, there’s no going back.

What do you mean by that?

We make prototypes, not series—if only because conditions are so different depending on whether I build on good Munich gravel or 60 km away in Rosheim on 300-meter-deep clay soil, for example. We aren’t really given a development period yet have to give a prognosis that the building, the bridge, the tower, whatever it is we’re building, will fulfill its purpose and stay stable for the next 100 years. Something that’s often overlooked is that our constructions have an influence on society because they stay there for generations. That is exactly what makes what we do extremely different from what mechanical engineers do, firstly because they have the option, when necessary, to recall a car or improve something on an airplane, and secondly because their products have much shorter lifespans than ours.

How do you handle this responsibility?

The German construction industry revenues at around 300 – 400 billion euro per year, from shell construction to finished buildings. The value of the entire construction infrastructure is over 25 trillion euro. In bankers’ terms, these are “assets under management” that civil engineers and architects have to account for and manage. These numbers are enough to turn any banker pale. It’s important to me that these huge financial assets are handled in a responsible way that allows society to benefit from them. I try and get that across in my lectures at TUM so as to prepare the next generation of civil engineers for the task ahead of them.

You have also taken on social responsibility as a university donor—you've donated 100,000 euro in capital to the University Foundation which funds exceptional students and young scientists. Why?

Gabriele Hertle: Our university's wellbeing is important to us because we wouldn't be where we are today without our education—TUM massively shaped the course of our lives. We have kept in touch with our professors, and when we have a problem at work we don't hesitate to pick up the phone and call our colleagues at TUM to talk things over—there is never any shame in asking for advice.

Robert Hertle: I think that if your professional success is a result of your education, you have a responsibility to give back. People need to think about how they can help the next generation access the same level of education—and the chance to shape the future that comes with it—that they had.

Isn't that the state's responsibility?

Robert Hertle: Today's fast-paced world means institutions whose funding comes solely from politics or public money face being at the whim of various emotions or political ambitions. So, if it's possible to create stability through private financing, it's worthwhile to do so. That way, an institution can confidently go to its political donors and say, "we'll do it ourselves." A university of TUM's class should be able to do that.

Mehr erfahren unter: www.tum-universitätsstiftung.de



GABRIELE AND PROFESSOR DR. ROBERT HERTLE

Degree in Civil Engineering 1988 and Degree in Civil Engineering 1985, PhD 1992

Gabriele and Robert Hertle met while studying Civil Engineering at TUM. After graduating, Gabriele Hertle started working as a civil engineer for AEG and worked on the construction of maglev trains. Robert Hertle completed his doctoral dissertation on steel construction and structural mechanics at TUM in 1992 and immediately started his own engineering company in Graefelfing. His company specializes in structural engineering among other things and has been involved in construction projects all over the world. Gabriele Hertle began working for her husband's company after the birth of their second son. Robert Hertle has been an Honorary Professor at the TUM since 2013. He is also a member of national and international expert and standardization committees for temporary construction aids and structural engineering. Gabriele and Robert Hertle have been donors to the TUM University Foundation since 2014.



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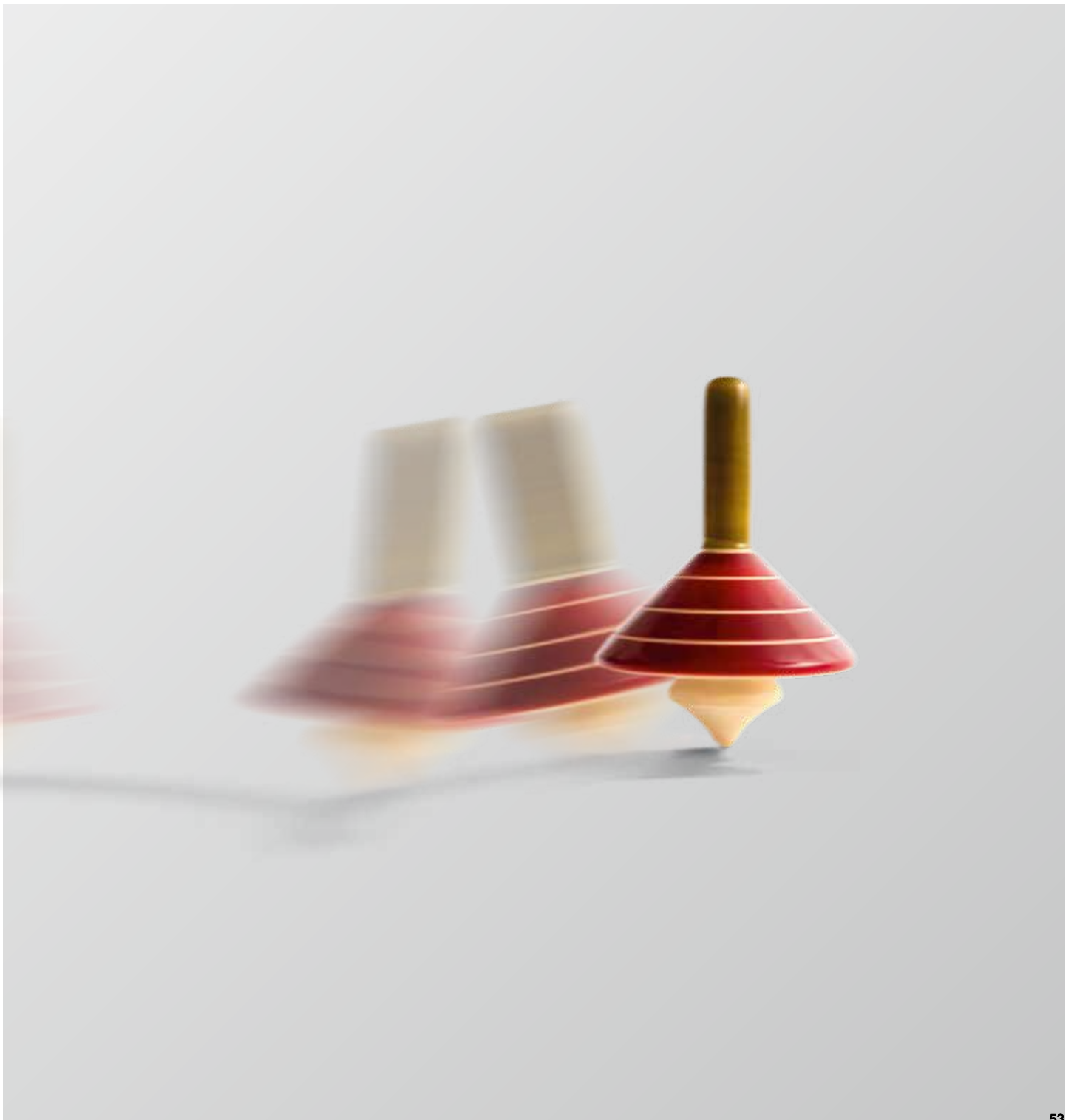
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KontakTUM Programme

For Alumni of the Technical University of Munich
Fall / Winter 2018/19



HONORING THE PAST, SHAPING THE FUTURE

KARL MAX VON BAUERNFEIND

A new tomb for the founding director of TUM

Time leaves its mark, people get older, walls crumble, buildings get dirty. The tomb of the TUM founding director Karl Max von Bauernfeind at the Old Northern Cemetery in Munich is now 124 years old. Not only the ravages of time have gnawed away at him. During the Second World War, a bomb struck nearby and shook the tomb, destroying the ionic columns. On the occasion of its 150th anniversary, TUM had the tomb restored with the support of the non-profit Karl Max von Bauernfeind Association for the Promotion of the Technical University of Munich.

Karl Max von Bauernfeind was the first director of today's TUM. He was an acknowledged theorist in the field of geodesy and bridge construction, but also a proven practitioner thanks to his experience in railway construction. When he opened the new university in 1868, he had just turned 50. The founding director saw the task of TUM as "to bring the spark of science to the commercial and industrial world". TUM President Wolfgang A. Herrmann says, "Karl Max von Bauernfeind stood for the spirit of optimism of the new technical world and for the interweaving of theory and practice, which has played a decisive role at our university since its foundation". "To this day, TUM's cutting-edge research has found its way directly into practice, for example in the construction of the Gotthard Base Tunnel, in which several TUM professors were involved."





IN ITS ANNIVERSARY YEAR, TUM REMEMBERS ITS PAST WITH
NUMEROUS EVENTS, LOOKS TO THE FUTURE FULL OF HOPE AND
HELPS SHAPE IT WITH ITS TALENTS.

At the symposium marking the 100th birthday of the Nobel Prize winner and TUM Alumnus Ernst Otto Fischer (Diploma in Chemistry 1949, Doctorate 1952, Habilitation 1954) you can find out more about his biography and his pioneering work as one of the most important German chemists. The TUM IdeAward honors inventions that can change the world. This year, the award ceremony will be dedicated to TUM founding director Karl Max von Bauernfeind, on whose 200th birthday the prizes will be awarded.

Restorer and TUM Alumnus Quentin Saltzmann (Master Restoration 2016) restored the original condition of the tomb as far as possible. The tomb was freed from ivy and verdigris, moved above base level due to structural displacements, the inscriptions were redone and the bronze bust of Bauernfeind was reattached.

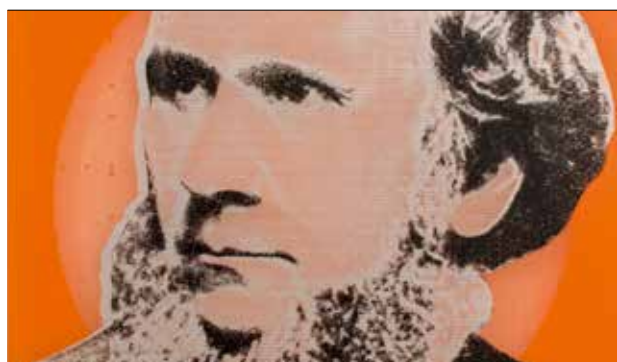
SPECIAL EDITION POSTAGE STAMP

In the anniversary year of TUM, two special edition postage stamps of the Deutsche Post are being issued: On 12th April the stamp with a value of 150 cents for the 150th anniversary of TUM and on 2nd November a stamp with a value of 70 cents for the 100th birthday of Ernst Otto Fischer. The design was created by artist Thomas Meyer and shows a photo portrait of the chemist and the dibenzol chrome, in schematic form, which was his most important research achievement.



Talent for the TUM

Founding director Karl Max von Bauernfeind (1818 – 1894) had a good instinct for talent, which soon paid off. Among the first professors were Carl von Linde and Oskar von Miller, whose inventions still affect our lives today. One of the first TUM students was Rudolf Diesel, whose engines are also an integral part of our everyday lives.



TUM IDEAWARD



SILVER COMMEMORATIVE COIN

On the occasion of Ernst Otto Fischer's anniversary, the Federal Ministry of Finance is also issuing a silver commemorative coin. The design is by the artist Katrin Pannicke from Halle an der Saale and shows on the picture side an artistically transformed model of the dibenzol chrome with the double cone structure, for which he received the Nobel Prize in 1973. The smooth edge of the coin is embossed with the inscription "Natural sciences are neither good nor evil", a phrase that Ernst Otto Fischer himself liked to quote frequently. The coin is made of sterling silver (Ag 925), has a face value of 20 euros, is issued in a strictly limited edition and will be available in the branches of the Deutsche Bundesbank from mid-October.



SCIENTIFIC COLLOQUIUM

E. O. Fischer's 100th birthday

This memorial colloquium commemorates one of TUM's most prominent graduates and professors, Nobel Prize winner Ernst Otto Fischer. TUM President Wolfgang A. Herrmann, himself a Fischer student and immediate successor to the chair, opens the event. The importance of Fischer will be acknowledged in lectures together with a small exhibition.

DATE

Sat. 10.11.2018

10 am – 6 pm

PLACE

TUM Campus Munich
Friedrich von Thiersch Auditorium
Arcisstraße 21, Munich

INFORMATION

<http://go.tum.de/312800>

AWARD CEREMONY

IdeAward 2018

Some ideas change the world. Inventions that achieve this are awarded the IdeAward at TUM. Scientific ideas and technologies that are economically feasible are the focus of this competition of TUM, Center for Innovation and Business Creation at TUM and Zeidler Research Foundation.

This year, the IdeAward will be dedicated to TUM founder Karl Max von Bauernfeind, on whose 200th birthday the prizes will be awarded.

DATE

Wed. 28.11.2018

6 – 9 pm

PLACE

TUM Campus Munich, Audimax
Arcisstraße 21, Munich

INFORMATION

www.tum.de/wirtschaft/entrepreneurship/ideaward

EXHIBITION

More than a fairytale king

King Ludwig II built several castles – including Linderhof Castle – which is well known. Less famous are the factories, the railway facilities or the Munich Town Hall and the first TUM building by Gottfried von Neureuther, commissioned by Ludwig II.

To mark the 150th anniversary of TUM, for the first time the TUM Architecture Museum is presenting an overview of the architecture under the reign of Ludwig II (1864 to 1886).

DATE

Wed. 06.09.2018 – Sun. 13.01.2019

10 am – 6 pm

PLACE

Architecture Museum of TUM
in the Pinakothek der Moderne
Barer Straße 40, Munich

INFORMATION

<https://bit.ly/2DA7hDS>

GENERATIONS CELEBRATING TOGETHER

“I am very much looking forward to the TUM advent concert in December and the TUM family reunion,” says renowned oboist Prof. Hansjörg Schellenberger, who was awarded the German Cross of Merit (on ribbon) in August of this year.

Following on from 2015, he will again be playing in the musical program as a soloist this year together with the Symphonic Ensemble Munich and the TUM-Choir under the direction of Prof. Felix Mayer. “I have great esteem for Wolfgang Herrmann and we were in the same class at school in Kelheim,” he relates. Now he will be making music with the president of TUM who – as every year – will be playing the organ in the Philharmonic in Gasteig.



Oboist Prof. Hansjörg Schellenberger will be performing at the advent concerts as a soloist.

EACH YEAR THE ENTIRE TUM FAMILY COMES TOGETHER TO CELEBRATE ADVENT AND ANOTHER YEAR DRAWING TO A CLOSE.

Many TUM members and therefore generations are united by a love of music. In the TUMchoir and orchestra, students, Alumni and staff sing and play together, with the audience made up of both young and old, engineers, humanities and natural science graduates and people of all nationalities. At the Silver and Golden Jubilee celebrations, President Herrmann will personally honor Alumni who completed their degrees or doctorates 25 or 50 years ago. The TUM family brings the academic year to a close with the dies academicus.



MUSICAL PROGRAM

Richard Wagner: Extracts from Die Meistersinger von Nürnberg

Carl Maria von Weber: Jubel Overture, op. 59

Franz Hummel: Celebratory music for the 150th anniversary of TUM

Johannes Brahms: Fest- und Gedenksprüche, op. 109

Ludwig v. Beethoven: Choral Fantasy, op. 80

Soloists: Wolfgang A. Herrmann (organ), Sylvia Dankesreiter (piano),
Ute Ziemer (soprano), Hansjörg Schellenberger (oboe) Conductor:
Prof. Felix Mayer



“Our Alumni have also made their contribution to the excellent reputation of TUM. It is therefore important for us to praise their work and successes accordingly – such as at Silver and Gold Jubilees.”

TUM President Wolfgang A. Herrmann
(Degree in Chemistry 1971)



VIVAT TUM CONCERT

Experiencing music together

Over the years, the advent concerts at TUM have become something of a tradition. Since 2008, the university has invited its freshmen and their parents as well as all Alumni, patrons and friends of TUM to the Vivat TUM concert in the philharmonic in Gasteig. This year the theme is "Festmusiken" (celebratory music); the Symphonic Ensemble Munich performs together with the TUMChoir directed by professor Felix Mayer.

DATE

Sun. 02.12.2018
2.30 pm – 4.45 pm

PLACE

Philharmonic Hall at Gasteig
Rosenheimer Straße 5, Munich

ANMELDUNG

www.together.tum.de/events

JUBILEE CELEBRATION 25 YEARS

TUM Silver Jubilee

This year graduates who completed their degree or doctorate in 1993 will be celebrating their silver jubilee at TUM. On the first weekend of advent TUM invites all anniversary celebrants to celebrate their jubilee together. TUM president Wolfgang A. Herrmann will be welcoming the celebrants and shall honor them with a silver degree certificate/PhD certificate. At the subsequent President's Dinner, they can reflect on the past 25 years with fellow students, get to know other TUM Alumni and expand their network of contacts while relaxing.

DATE

Sat. 01.12.2018
5 pm – 10 pm

PLACE

Munich

REGISTRATION

Event for invited guests
www.together.tum.de/silbernes-goldenes

50 YEARS JUBILEE CELEBRATION

TUM Golden Jubilee

At the Golden Jubilee, the university will be honoring all those who graduated or completed their doctorate at TUM 50 years ago i.e. in 1968. Following the advent concert, the TUM will be inviting all guests to the ceremonial President's Dinner. There TUM President Wolfgang A. Herrmann will hand over a golden degree or PhD certificate to all jubilee celebrants. The celebrants will be introduced personally. This aim of this event within the TUM family circle is to act as a setting for reunions, new acquaintances and reminiscences about one's own time at TUM.

DATE

Sun. 02.12.2018
5 pm – 10 pm

PLACE

Munich

REGISTRATION

Event for invited guests
www.together.tum.de/silbernes-goldenes

ANNUAL ACADEMIC CELEBRATION

Dies academicus

Each year in December the TUM invites guests to the dies academicus, at which the entire TUM family, friends and patrons of the university come together. Regular teaching activity is interrupted at the university for this one day. The achievements of individual members of the TUM family are honoured and a summary of the past year is read out. In 2018 the dies academicus will be of particular significance since it will be the official conclusion of the TUM's anniversary year. President Wolfgang A. Herrmann will be looking back on the year and will provide an outlook of the TUM's future.

DATE

Thu. 06.12.2018
10 am – 1 pm

PLACE

TUM Campus Munich, Audimax
Arcisstraße 21, Munich

REGISTRATION

Public event, no registration required.

DISCIPLINES OPEN UP



TUM's "Hans Eisenmann Forum" is an integrative research center that uses digital technologies to enrich the practices of Agricultural Science with the capabilities and insights of the Biosciences and Engineering, as well as Informatics.

FREISING

A bridge for TUM

177 meters to the tune of 3.5 million euros – the new TUM Anniversary Bridge was recently dedicated on the Life Science Campus Freising-Weihenstephan. It spans Thalhauser Straße and connects the campus center with the north grounds. Initiated by President Wolfgang A. Herrmann, the TUM Anniversary Bridge leads from the Maximus von Imhof Forum in front of

the central lecture hall over to the Hans Eisenmann Forum. "I wanted to see the areas of the campus previously separated from each other by the street and the Moosach connected to each other," says the President. "The bridge represents a symbolic connection between the different scientific disciplines."

THE INTERACTION BETWEEN SCIENCE AND THE PUBLIC IS STRONGLY PROMOTED AT TUM. THE UNIVERSITY IS TAKING A LEADING ROLE IN INTERDISCIPLINARY RESEARCH.

As part of the TUM@Freising series, meet TUM researchers in person and speak with them about current projects. You can also experience leading-edge research in the presentation by neutron expert and TUM Alumnus Winfried Petry. At the “Women in the Digital Future” conference, you’ll hear inspiring talks on the question of how gender stereotypes are manifested in the media, education, science and business by TUM Alumna and actress Maria Furtwängler, among others.



DATES

Tue. 23.10.2018 Prof. Dr. Michael Suda Dr. Anika Gaggermeier	Thu. 22.11.2018 Prof. Dr. J. Philipp Benz	Thu. 17.01.2019 Prof. Dr. Natalie Germann	Tue. 26.02.2019 Prof. Dr. Erwin Grill	Thu. 4.04.2019 Prof. Dr. Hans Hauner
Forest – 10,000 fathoms of timber or green pleasure (a performance)	Fungi in biotechno- logy – from the forest to the world's fermenters	The secret of kneading bread	How green is our future? Water as a limiting factor in plant production	Trends in nutrition – how food impacts our health

The **Women of TUM** is the women's network at TUM. Scientists, Alumni and students connect and support each other in the fields of business and science, throughout the world and across disciplines. Join the Women of TUM in the TUM Community today: You'll receive automatic notification of updates and events. <http://go.tum.de/286407>



On October 9, **Prof. Winfried Petry** (Diploma in Physics 1976) was named TUM Emeritus of Excellence, an honor that recognizes the recipient's lifetime achievement at TUM. He was appointed director of research reactor II at TUM, the only high-flux neutron source in Germany, 23 years ago. "I have enjoyed the freedom of being able to direct the scientific use of a major research facility."



TUM@FREISING LECTURE SERIES

Science explained for the general public

What actually happens when bread is kneaded? What do fungi have to do with biotechnology? These questions will be answered by researchers from the School of Life Sciences Weihenstephan in the TUM@Freising lecture series, which presents science tailored for a general audience. The series explicitly encourages a discussion after each lecture, because science lives from the exchange of ideas. Not just for Freising residents and Alumni of the School of Life Sciences Weihenstephan! Information: www.freising.wzw.tum.de

DATES

Tue. 23.10.2018, Thu. 22.11.2018,
Thu. 17.01.2019, Tue. 26.02.2019,
Thu. 11.04.2019, 7 – 9 pm

PLACE

Lindenkeller, Veitsmüllerweg 2, Freising

REGISTRATION

No registration necessary, but early arrival recommended for seats.

CONFERENCE

Women in the Digital Future

Why are the heroes in children's films always boys? What can we do to ensure that in the future we'll see female astronauts and discoverers there too? Actress and TUM Alumna Maria Furtwängler will talk about these questions at the conference. Further inspiring talks on dealing with gender stereotypes in the media, education, science and business will be given by ARD program director Volker Herres, Harvard professor Hannah Riley Bowles and Edition F editor-in-chief Teresa Bücken, among others.

DATE

Fri. 07.12.2018
9.15 am – 5.30 pm

PLACE

TUM Campus Munich, Theodor Fischer-Hörsaal, Arcisstraße 21, Munich

REGISTRATION

<http://go.tum.de/225154>

EXHIBITION

200 Women: What Drives Us

What makes you happy? What is your greatest sorrow? These questions were posed to 200 women worldwide, from celebrities to unknown heroes of everyday life.

This BMW-sponsored exhibition presents the women's answers. They show just how much discrimination women face, but also the great strength with which they fight for justice. Based on the book of the same name, the exhibition will also be shown at TUM in its anniversary year. The book project was initiated by Blackwell & Ruth and is published in Germany by Elisabeth Sandmann Verlag.

DATE

Tue. 27.11.2018 – Fri 14.12.2018
9 am – 9 pm

PLACE

TUM Campus Munich
matriculation hall
Arcisstraße 21, Munich

REGISTRATION

No admission, open to the public.

LECTURE, DISCUSSION AND RECEPTION

Leading-edge research, live and direct

Science is shaped in part by personalities with great experience. What motivated them? What have they experienced? What ideas do they want to pass on to others? The TUM Emeriti of Excellence and the Munich Center for Technology in Society (MCTS) are jointly hosting the lecture series "Tech-Histories Alive – Zeitzeugen der Wissenschaftsgeschichte". In the series, TUM Emeriti of Excellence tell about their work in the world of science. Prof. Winfried Petry will present the lecture "60 Years of Leading-Edge Research with Neutrons in Garching – How Science and Politics Depend on Each Other."

DATE

Tue. 29.01.2019
6.30 pm – 8 pm

PLACE

TUM Campus Munich, Vorhoelzer Forum
Arcisstraße 21, Munich

REGISTRATION

No registration necessary.

AT HOME AND IN THE WORLD





TUM TAKES ITS RESPONSIBILITY FOR COMING GENERATIONS VERY SERIOUSLY – NOT JUST AT HOME, BUT AROUND THE WORLD AT ITS INTERNATIONAL LOCATIONS AND IN PROJECTS WORLDWIDE.

TUM's engagement for Africa will be the topic of the major Africa symposium being organized by the TUM Emeriti of Excellence to mark the university's anniversary. Alumni will also have the chance to encounter other cultures through the "Diversity" film series and enjoy day excursions with guest scientists from around the world. TUM Alumni gather all around the world to share their experiences and ideas, including on the Alumni trip to Ecuador or the "Dine Around the World" dinner events.

A car specially designed for a continent?

A car specially designed for a continent? Why not, thought a group of TUM researchers, who spent four years developing a car specially designed for Africa together with partners from the business and research communities. The vehicle was to be specifically tailored to the requirements of the terrain and the people. The aCar was presented at the International Motor Show in Frankfurt in September 2017. It has an electric motor that uses solar energy, is built with materials available in Africa and can be produced at a low cost.

The aCar is intended to give people in poor and remote regions mobility and thus improve their access to healthcare, education and business opportunities.

ENGAGEMENT FOR AFRICA

The aCar is just one of many projects through which TUM is engaged in Africa. Many researchers and students are active in collaboration projects on the African continent and work to promote sustainable development cooperation there. They work together with German and local African partners and play an active role in interdisciplinary projects dealing with urgent issues such as water, energy and nutrition issues, environmental protection, infrastructure and global health and governance.

TUM assumes responsibility for coming generations, both at home and on the international level. The challenges of the present are so complex that no one can resolve them alone. That's why TUM is a strong advocate of interdisciplinarity and internationalism. TUM has locations on four continents and has formed strategic alliances with the leading technical universities worldwide. At home in Bavaria, successful in the world.



LECTURE WITH TESTIMONIALS

Global Minds

Are you keen to go abroad (again): In your studies, directly thereafter or through your company? Opportunities to work abroad for shorter and longer periods arise continually. The "Global Minds" event series provides information about what's important to keep in mind and what questions can come up in the process. Each of the dates addresses a particular destination country with its specific conditions, the associated application process and the intercultural challenges.

DATES

Tue. 20.11.2018 (France), Fri. 18.01.2019
(USA/UK), Mon. 21.01.2019 (Brazil)
different times

PLACE

TUM Campus Munich
various locations

REGISTRATION

www.together.tum.de/events

DIVERSITY FILM SERIES

Getting to know other cultures

The Diversity film series was established at the TUM Language Center in 2008 in order to give German students the chance to learn about other cultures and show that cultural diversity enriches society. The series is now held jointly with the neighboring film school HFF Munich, where the films are shown in a proper movie theater. Three film evenings with different themes are planned for the winter semester. If possible, the filmmakers come to the presentations to engage in discussions with the public – in various languages, naturally.

DATES

Tue. 20.11.2018, Thu. 13.12.2018
Thu. 17.01.2019
7 – 9 pm

PLACE

HFF Munich, Bernd-Eichinger-Platz 1
Munich

INFORMATION

<http://go.tum.de/518200>

NETWORKING EVENT

Dine Around the World

In TUM's anniversary year, the world is the meeting place for TUM Alumni in the "Dine Around the World" event series. Depending on the preference of the respective organizer, the dinner events may be held in a restaurant or beer garden, on the beach, as a picnic in the park or in a private home. The events are a chance to meet with Alumni in your region in a laid-back atmosphere while sharing your TUM experiences over dinner: come as strangers, leave as friends.

www.together.tum.de/datw

DATE

Sat. 17.11.2018
3 – 9 pm

PLACE

Shanghai, China
(location to be announced)

HOST

Jolin Gan (study abroad semester 2010)
Dr. Petra Dorfner (Doctorate in Chemistry 2012)

AFRIKA-SYMPOSIUM DER TUM EMERITI OF EXCELLENCE

Nachhaltigkeit in Afrika



Die TUM sieht den afrikanischen Kontinent als Zukunftsaufgabe. Im Jubiläumsjahr organisieren daher die TUM Emeriti of Excellence zusammen mit der TUM School of Governance ein Symposium, bei dem sie das breitgefächerte Afrika-Engagement der TUM vorstellen und Projekte in den Bereichen Gesundheit, Ressourcen, Fahrzeugtechnik und Architektur skizzieren. Keynote-Speaker ist der renommierte Architekt TUM-Professor Francis Kéré. Neben Vorträgen hochkarätiger WissenschaftlerInnen gibt es ein Round-Table-Gespräch über „Ausbildung und Governance in Afrika“, an dem auch Vertreter aus Industrie und Politik

TERMIN

Fr. 16.11.2018
09.00 – 17.30 Uhr

ORT

TUM Campus Garching, Ernst Schmid-Hörsaal,
Boltzmannstraße 15, Garching

ANMELDUNG

<http://go.tum.de/447066>

EXCURSION WITH TOUR

On the road with guests

Obersalzberg hat in den 1930er Jahren den Sommerort von Adolf Hitler geworden, und wurde zu einem zweiten Sitz der Regierung. Heute ist es ein Ort der Erinnerung und der Dokumentation. Die TUM International Center organisiert Exkursionen und Touren von Obersalzberg für internationale Gäste an der TUM. TUM Alumni sind ebenfalls herzlich willkommen, um internationale Doktoranden und Gastwissenschaftler für die Englisch-Sprach-Tour und um sich über das Mittagessen zu treffen. Interessierte können den Bus an der TUM Campus München um 7.30 Uhr morgens oder die Gruppe vor Ort um 10.30 Uhr morgens treffen.

DATE

Sat. 02.03.2019
10.30 am – 5 pm

PLACE

Dokumentation Obersalzberg
Salzbergstraße 41, Berchtesgaden

REGISTRATION

www.together.tum.de/events

ALUMNI TRIP

Visit the center of the world

TUM hat die Organisation von Alumni-Trips für ehemalige Studenten seit 2009 übernommen. Zusammen mit anderen TUM Alumni reisen Sie in ein nahes oder weit entferntes Land und entdecken die Landschaft, die Menschen und die Kultur mit der Unterstützung von TUM Alumni im Land. Sie werden die TUM-Netzwerke sowie andere ehemalige Studenten der TUM kennenlernen. Im Jahr 2019 wird die TUM Alumni-Trip nach Ecuador sein. Auf einer Tour durch das kleine Land auf der Äquatorlinie werden Sie Unternehmen und landwirtschaftliche Operationen besuchen. Sie werden Schokolade probieren, wo sie hergestellt wird, Sie werden Panama-Hüte gesehen und durch den Regenwald wandern.

DATE

Sun. 08.09.2019 – Sun. 22.09.2019

PLACE

Ecuador

REGISTRATION

www.community.tum.de/gruppen/alumni-reisen

DATE

Wed. 21.11.2018
7.30 pm – 10 pm

PLACE

“Le P’tit Troquet,”
Paris, France

HOST

Dr. Christoph Heinemann
(Degree in Chemistry 1993)

DATE

Wed. 21.11.2018 (women only)
7 pm – 10 pm

PLACE

Munich, Germany
(location to be announced)

HOST

Laura-Luisa Velikonja
(Master in Mathematics 2014)

Dine Around the World
meets
Women of TUM

DATE

Sat. 24.11.2018
6 – 9 pm

PLACE

Home of Helmut Hackstein
Calw, Germany

HOST

Helmut Hackstein (Degree in
Electrical Engineering 1975)

DATE

Sat. 24.11.2018
11 am – 2 pm

PLACE

Coogee Beach, South, BBQ area
Sydney, Australia

HOST

Barbara Daxenberger
(Bachelor in Mathematics 2010)

LEARNING AND GROWING TOGETHER

SUCCESSFUL START-UP FOUNDERS FROM TUM

Celonis was started by its three founders Bastian Nominacher, Martin Klenk und Alexander Rinke, who have much to be grateful to TUM for. All got to know each other during their time as students working at the Academy Consult Munich, a student corporate consulting company. Completing their degrees while they were founding the start-up, their studies came in useful when it came to developing the software. Bastian Nominacher studied Finance and Information Management, Martin Klenk IT and Alexander Rinke Mathematics. "Whether for the software architecture or a complex financial model – the knowledge we acquired at university has come in useful time and time again. It has been incredibly important for us – ultimately we had no professional experience whatsoever when we founded our company," explains Bastian Nominacher.

Today he is more than happy to be able to pass on in turn the experience and knowledge he gained while founding his start-up at the "Hidden Champions" career lounge for students and TUM Alumni.

Find out more about the history of Celonis here:
www.150.alumni.tum.de/celonis-en

CELONIS

A true hidden champion

When TUM Alumnus Bastian Nominacher founded his start-up together with his two fellow students Martin Klenk and Alexander Rinke back in 2011, they were still using his private apartment as an improvised office. Today all three are among the most successful entrepreneurs in Germany. The value of their start-up Celonis recently reached the one-billion-dollar mark, so that the company is now officially termed a unicorn. According to the "Handelsblatt," only five start-ups have passed the one-billion threshold over the past ten years. Yet right from the outset it was apparent that Celonis would become more successful than other start-ups: profitable from day one when founded in 2011, by 2015 it was the fastest growing technology company in Germany and one year later an office was opened in New York.

TRUE TO THIS MOTTO, MUTUAL EXCHANGE BETWEEN DIFFERENT GENERATIONS ABOUT LIFE/CAREER PLANNING PLAYS A SIGNIFICANT ROLE AT TUM.

This takes place for example at the regular career lounges, and exclusive podium discussions with VIP guests. At these events you can get to know interesting Alumni personalities from the various industry sectors. At TUM career events and at TUM Mentoring, you can pass on your own knowledge or profit from the knowledge of others. Regardless of which phase you are currently at in your career, you are cordially invited to come along.



Two of the three:
Bastian Nominacher (left)
and Martin Klenk (right)
founded the successful
start-up Celonis together
with Alexander Rinke.
All three founders studied
at TUM.

CAREER LOUNGE

CAREER LOUNGE AT THE TUM CAREER DAY

Hidden Champions

Small and medium-sized businesses are known as hidden champions since they are relatively unknown yet they still play a leading market role in their sector or industry. There are many hidden champions among the ranks of TUM Alumni too. At this podium discussion, three of them report back on their chosen career paths. Find out about employers of interest and family companies you may never have heard of. Learn about some unique products and the start-up entrepreneurs who departed from the well-trodden career paths.



“When means are limited, motivating a team about something requires a visionary superstructure. And consequently, something that fosters meaningful motivation. At university, we learned to think and acquired a better understanding of overarching theoretical concepts. This enabled me to develop visions and future plans for companies later on.”

Dr. Hans J. Langer (Degree in Physics 1977), founder of a hidden champion
More: www.150.alumni.tum.de/hans-langer-en

DATE

Thu. 31.01.2019

6 pm – 7.30 pm

PLACE

TUM Campus Garching

REGISTRATION

www.together.tum.de/events

FINDING OUT ABOUT CAREER PATHS

Insider knowledge is always priceless and the TUM network thrives on this. Experienced TUM Alumni share their knowledge and insights, reporting from their professional and personal lives. The career lounge enjoys a long tradition at TUM career days. Selected TUM Alumni will open the topical discussion panels, providing an insight into their everyday working lives and inviting guests to discuss their experiences.

USE THE OPPORTUNITY TO FIND OUT ABOUT DIFFERENT CAREER PATHS AND MAKE SOME NEW CONTACTS OF INTEREST.

CAREER LOUNGE AT THE TUM CAREERS DAY

Careers in consulting

Future perspectives for the consulting sector are deemed highly promising. Yet how can career entrants be successful in this sector? What are some typical fields for consulting? Gain some insight into the current employment market for consulting. TUM Alumni report back and share their experiences.

DATE

Tue. 20.11.2018

6 pm – 7.30 pm

PLACE

TUM Campus Munich

REGISTRATION

www.together.tum.de/events

CAREER LOUNGE AT THE TUM CAREERS DAY

Life Sciences

At this event, young professionals from the life sciences provide insider tips on developing a career in a highly varied sector: What skills and additional qualifications are particularly in demand? Which career areas offer the greatest potential for development? Join us and learn from TUM Alumni.

DATE

Tue. 27.11.2018

6 pm – 7.30 pm

PLACE

TUM Campus Weihenstephan

REGISTRATION

www.together.tum.de/events

CAREER LOUNGE

Opportunities in patenting

Munich is an important centre for patents, being the seat of the German and European Patent Office and of many legal chancelleries for patent lawyers. Alumni report on training to become patent lawyers and career opportunities in chancelleries, the industry, the German Patent and Trade Mark Office and the European Patent Office.

DATE

Thu. 24.01.2019

6 pm – 7.30 pm

PLACE

TUM Campus Garching

REGISTRATION

www.together.tum.de/events

AMONG COLLEAGUES



GOOD-NATURED EXCHANGE WITH COLLEAGUES

The TUM Network is a lively place in which to exchange ideas. For questions arise at every career step on a career path: Am I currently on the right path, do I want to change something, could I do with some further training or obtain some valuable tips from others? Can I support the younger generation, give something back and continue to learn myself as a result? The best people to answer these questions are fellow colleagues.

COME ALONG AND MAKE SOME NEW CONTACTS WITHIN THE TUM FAMILY!

ADVICE FROM COLLEAGUES

Adventure Management

Among the TUM Alumni a group of experts in leading positions exists that meets regularly and maintains good-natured dialog among colleagues. Inexperienced staff too who recently assumed a management position will benefit from talking to those of a like mind here. Why not come along? Whether about management of employees or new challenges in everyday working life – you can share your own topics with others here. “Exchanging views with colleagues in leading positions in other sectors helps foster new ideas,” explains Dr. Herbert Reiter (PhD in IT 2010), who helped initiate the format.

DATES

Thu. 25.10.2018, 13.12.2018,
17.01.2019, 14.03.2019
6.15 pm – 8 pm

PLACE

TUM Campus Munich

REGISTRATION

www.together.tum.de/events

TUM MENTORING NETWORK MEETING

Tinder, tact and virtues

How is etiquette changing in the age of digitalization? Are traditional codes of conduct still relevant? Alumnus Clemens Graf von Hoyos, speaker and expert in business etiquette and chairman of the “Deutsche-Knigge-Gesellschaft” (German Etiquette Society), provides an introduction to the topic in his opening speech “Tinder, tact and virtues”. Afterwards, there will be an opportunity for discussion and networking within the TUM Mentoring Network. Come along with your mentees. Even if you are not a mentor, come along anyway and find out about TUM Mentoring!

DATE

Wed. 07.11.2018
7 pm – 9 pm

PLACE

TUM Campus Munich

REGISTRATION

www.together.tum.de/events

ADVICE FROM COLLEAGUES

Adventure Starting a Career

The first 100 days in a job, the challenges of everyday working life, considerations about subsequent career planning – starting out on a career path brings with it much that is new and unfamiliar. We invite young Alumni in the first year of their careers to a discussion with other career entrants. Come and join us! This group offers a safe environment in which to discuss problems with those of a like mind, pass on experience and devise approaches to solutions. At the same time, you can learn from the experience of other young Alumni from various areas of expertise and companies.

DATES

Thu. 15.11.2018, 13.12.2018, 07.02.2019
6 pm – 8 pm

PLACE

TUM Campus Munich,

Garching and Weihenstephan



REGISTRATION

www.together.tum.de/events

DATES AND EVENTS

Exhibitions Winter Semester 2018/2019

until Mon. 31.02.2019 all-day event
INSIDE\OUT Research Pavilion
TUM Campus Munich, inner courtyard
of the Chair for Structural Design, TUM
www.it.ar.tum.de/forschungspavillon

until Mon. 31.12.2018 9 am – 9 pm
Zeitlupe – 150 Years of the Technical University
of Munich
TUM Campus Munich, matriculation hall,
Arcisstraße 21, Munich
Chair of Architectural Informatics, TUM
www.150.tum.de/event/ausstellung-zeitlupe

until Sun. 13.01.2019 10 am – 6 pm
King's palaces and factories – Ludwig II and
architecture
Architecture Museum of TUM in the Pinakothek
der Moderne, Barer Straße 40, Munich
Architecture Museum of TUM
www.architekturmuseum.de/aktuell

Tue. 27.11.2018 – Fri. 14.12.2018 9 am – 9 pm
200 Women: **What Drives Us**
TUM Campus Munich, matriculation hall,
Arcisstraße 21, Munich
Equal Opportunity Office, TUM
www.twohundredwomen.de
www.chancengleichheit.tum.de

November 2018

Sat. 03.11.2018 – Sun. 04.11.2018
Sat 10 am – 6 pm, Sun 9 am – 1 pm
Mobility Trainer
Further and advanced training course
TUM Campus in Olympiapark
Costs: 340 euro (standard), 290 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Wed. 07.11.2018 5 pm – 6 pm
INSIDE\OUT – Guided tour through
the Research Pavilion
Guided tour
TUM Campus Munich
Chair for Structural Design and Alumni & Career,
TUM
www.it.ar.tum.de/forschungspavillon

Wed. 07.11.2018 7 pm – 9 pm
Tinder, tact and virtues: decency cannot be bought
in an AppStore!
TUM Mentoring network meeting
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Wed. 07.11.2018 7 pm
The discreet mathematics of democracy
Lecture
Ehrensaal, Deutsches Museum, Munich
Faculty for Mathematics, TUM
www.ma.tum.de/UeberUns/Kalender

Fri. 09.11.2018 – Sat. 10.11.2018 all-day event
Hands-on spectral CT workshop
Conference
Klinikum rechts der Isar, TUM, Munich
Costs: 750 euro
Klinikum rechts der Isar,
TUM Registration: ctworkshops.de/registration

Sat. 10.11.2018 10 am – 6 pm
Memorial colloquium for Nobel Laureate E. O.
Fischer on his 100th birthday
Colloquium
TUM Campus Munich, Friedrich von Thiersch-
Hörsaal, Arcisstraße 21
Faculty for Chemistry, TUM go.tum.de/938220

Sat. 10.11.2018 – Sun. 11.11.2018 all-day event
Applied muscle function diagnostics
Further and advanced training course
TUM Campus in Olympiapark
Costs: 525 euro (standard), 470 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Thu. 15.11.2018 6.30 pm – 8 pm
Traffic today
Lecture
Deutsches Museum Verkehrszentrum,
Am Bavariapark 5, Munich
Costs: 3 euro, students free of charge
Chair of Traffic Engineering and Control, TUM
www.vt.bgu.tum.de/veranstaltungen/verkehr-aktuell

Thu. 15.11.2018 6 pm – 8 pm
Adventure Starting a Career
Advice from colleagues
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Fri. 16.11.2018 9 am – 5.30 pm
Sustainable Development in Africa
Symposium
TUM Campus Garching, Ernst Schmid-Hörsaal,
Boltzmannstraße 15, Garching
TUM Emeriti of Excellence
www.emeriti-of-excellence.tum.de/afrika-symposium
Registration: go.tum.de/534668

Sat. 17.11.2018 3 pm – 9 pm
Dine Around the World
Lecture and Alumni Dinner
Shanghai, China
Alumni & Career, TUM
www.together.tum.de/datw

Tue. 20.11.2018 5 pm – 8 pm
Global minds: Applying for work and
working in France
Lecture with reports of personal experiences
TUM Campus Munich
Sprachenzentrum and Alumni & Career, TUM
www.together.tum.de/events

Tue. 20.11.2018 6 pm – 7.30 pm
Career Paths in Consulting
Career Lounge as part of the TUM Career Days
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Tue. 20.11.2018 7 pm – 9 pm
HFF Short Film Evening for German as
a foreign language
Diversity film series
HFF Munich, Bernd-Eichinger-Platz 1, Munich
Sprachenzentrum, TUM and HFF Munich
www.sprachenzentrum.tum.de

Wed. 21.11.2018 7.30 pm – 10 pm
Dine Around the World
Alumni Dinner
Paris, France
Alumni & Career, TUM
www.together.tum.de/datw

Wed. 21.11.2018 7 pm – 10 pm

Dine Around the World meets Women of TUM
Lecture and Alumni Dinner (women only)
Munich, Germany
Alumni & Career, TUM
www.together.tum.de/alumni/netzwerk/datw-2

Thu. 22.11.2018 7 pm – 9 pm

TUM@Freising: Fungi in biotechnology –
from the forest to the world's fermenters
Lecture
Linden Keller, Veitsmüllerweg 2, Freising
TUM and Stadt Freising
www.freising.wzw.tum.de

Sat. 24.11.2018 11 pm – 2 pm

Dine Around the World
Alumni Dinner
Sydney, Australia
Alumni & Career, TUM
www.together.tum.de/datw

Sat. 24.11.2018 6 pm – 9 pm

Dine Around the World
Alumni Dinner
Calw, Germany
Alumni & Career, TUM
www.together.tum.de/datw

Sat. 24.11.2018 – Sun. 25.11.2018

Sat. 9 am – 5 pm, Sun. 9 am – 3 pm
TUM Sport and Health for Life – Fascia Training
in Sport and Prevention
Further and advanced training course
TUM Campus in Olympiapark
Costs: 250 euro (standard), 220 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Sat. 24.11.2018 – Sun. 25.11.2018

Sat. and Sun. 9 am – 5 pm
Course tutor Swimming for babies
and small children
Further and advanced training course
TUM Campus in Olympiapark
Costs: 280 euro (standard), 245 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Tue. 27.11.2018 6 pm – 7.30 pm

Meet Young Professionals in Life Sciences
Career Lounge as part of the Career Days
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Wed. 28.11.2018 6 pm – 9 pm

IdeAward 2018
Awards ceremony
TUM Campus Munich, Audimax, Arcisstraße 21
TUM ForTe – Research Funding and Technology
Transfer
www.tum.de/wirtschaft/entrepreneurship/ideaward

Fri. 30.11.2018 – Sun. 02.12.2018

**Fri. 5 pm – 8 pm, Sat. 8.30 am – 6 pm,
Sun. 9 am – 4.30 pm**
Therapeutic climbing – Neurology module
Further and advanced training course
TUM Campus in Olympiapark
Costs per module: 495 euro (standard),
440 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Thu. 29.11.2018 – Fri. 30.11.2018 all-day event

MMunich Digital Health Summit
Conference
Klinikum rechts der Isar, TUM, Munich
www.mri.tum.de/veranstaltungen/muenchner-digital-health-summit

December 2018

Sat. 01.12.2018 – Sun. 02.12.2018 all-day event

Functional Training B license (intensive course)
Further and advanced training course
TUM Campus in Olympiapark
Costs: 460 euro (standard), 410 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Sat. 01.12.2018 5 pm – 10 pm

TUM Silver Jubilee (25 years)
Jubilee Celebration
Munich
Alumni & Career, TUM
www.together.tum.de/silbernes-goldenes

Sun. 02.12.2018 2.30 pm – 4.45 pm

Vivat TUM Concert
Tribute by the TUM Ambassadors
Concert and tribute
Philharmonic Hall at Gasteig,
Rosenheimer Straße 5, Munich
Alumni & Career, TUM
www.together.tum.de/events

Sun. 02.12.2018 5 pm – 10 pm

TUM Gold Jubilee (50 years)
Jubilee Celebration
Munich
Alumni & Career, TUM
www.together.tum.de/silbernes-goldenes

Wed. 05.12.2018 5 pm – 6 pm

INSIDE\OUT – Guided tour through
the Research Pavilion
Guided tour
TUM Campus Munich
Chair for Structural Design and
Alumni & Career, TUM
www.lt.ar.tum.de/forschungspavillon

Thu. 06.12.2018 10 am – 1 pm

Dies academicus
Academic annual celebration
TUM Campus Munich, Audimax, Arcisstraße 21
TUM
www.tum.de/diesacademicus

Thu. 06.12.2018 – Sat. 08.12.2018 all-day event

8th Munich Vascular Conference 2018
Conference
Klinikum rechts der Isar, TUM,
Munich Klinik und Poliklinik für Vaskuläre und
Endovaskuläre Chirurgie, TUM
Registration: mac-conference.com/registration

Fri. 07.12.2018 9.15 am – 5.30 pm

Women in the digital future:
Breaking through stereotypes
Conference
TUM Campus Munich, Audimax, Arcisstraße 21
TUM,
Federal Ministry of Education and Research
and MINT Zukunft e.V.
Registration:
wiki.tum.de/display/Conference2018FrauenDigital

Fri. 07.12.2018 – Sun. 09.12.2018

9 am – 6 pm
Trainer for multimodal stress management
Further and advanced training course
TUM Campus in Olympiapark
Costs: 540 euro (standard), 450 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Thu. 13.12.2018 6 pm – 8 pm

Adventure Starting a Career
Advice from colleagues
TUM Campus Weihenstephan
Alumni & Career, TUM
www.together.tum.de/events

Thu. 13.12.2018 6.15pm – 8 pm

Adventure Management
Advice from colleagues
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Thu. 13.12.2018 6.30 pm – 8 pm

Traffic today
Lecture
Deutsches Museum Verkehrszentrum
Am Bavariapark 5, Munich
Costs: 3 euro, students free of charge
Chair of Traffic Engineering and Control, TUM
www.vt.bgu.tum.de/veranstaltungen/verkehr-aktuell

Thu. 13.12.2018 7 pm – 9 pm

Europa film evening, Film DJAM
Diversity film series
HFF Munich, Bernd-Eichinger-Platz 1, Munich
Sprachenzentrum, TUM and HFF Munich
www.sprachenzentrum.tum.de

Thu. 13.12.2018 6.30 pm – 8 pm

Traffic today
Lecture
Deutsches Museum Verkehrszentrum
Am Bavariapark 5, Munich
Costs: 3 euro, students free of charge
Chair of Traffic Engineering and Control, TUM
www.vt.bgu.tum.de/veranstaltungen/verkehr-aktuell

January 2019

Wed. 09.01.2019 5 pm – 6 pm

INSIDE\OUT – Guided tour through
the Research Pavilion
Guided tour
TUM Campus Munich
Chair for Structural Design and
Alumni & Career, TUM
www.lt.ar.tum.de/forschungspavillon

Sat. 12.01.2019 – Sun. 13.01.2019 all-day event

Fitness Trainer B license (special course)
Further and advanced training course
TUM Campus in Olympiapark
Costs: 679 euro (standard), 499 euro (concessions)
TUM Sport and Health for Life
www.weiterbildung.sg.tum.de

Thu. 17.01.2019 7 pm – 9 pm

Film evening with a focus on refugees/
endangered researchers
Film SALAM NEIGHBOR
Diversity film series
HFF Munich, Bernd-Eichinger-Platz 1, Munich
Sprachenzentrum, TUM and HFF Munich
www.sprachenzentrum.tum.de

Thu. 17.01.2019 6.15 pm – 8 pm

Adventure Management
Advice from colleagues
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Thu. 17.01.2019 7 pm – 9 pm

TUM@Freising:
The secret of kneading bread
Lecture
Linden Keller, Veitsmüllerweg 2, Freising
TUM and Stadt Freising
www.freising.wzw.tum.de

Fri. 18.01.2019 1.15 pm – 12.45 pm

Global minds:
Applying for work and working in the USA/UK
Lecture with reports of personal experiences
TUM Campus Munich
Sprachenzentrum and Alumni & Career, TUM
www.together.tum.de/events

Mon. 21.01.2019 3 pm – 4.30 am

Global minds:
Applying for work and working in Brazil
Lecture with reports of personal experiences
TUM Campus Munich
Sprachenzentrum and Alumni & Career, TUM
www.together.tum.de/events

Mon. 21.01.2019 6.30 pm

Career paths with Dr. Klaus Höchstetter
Lecture
Bavarian School of Public Policy Room
H.001/H.002, Richard-Wagner-Straße 1, Munich
Bavarian School of Public Policy/TUM School of Governance
www.hfp.tum.de/veranstaltungen/karrierewege

Thu. 24.01.2019 6.30 pm – 8 pm

Traffic today
Lecture
Deutsches Museum Verkehrszentrum
Am Bavariapark 5, Munich
Costs: 3 euro, students free of charge
Chair of Traffic Engineering and Control, TUM
www.vt.bgu.tum.de/veranstaltungen/verkehr-aktuell

Thu. 24.01.2019 6 pm – 7.30 pm

Opportunities in patenting
Career Lounge
TUM Campus Garching
Alumni & Career, TUM
www.together.tum.de/events

Tue. 29.01.2019 6.30 pm – 20.30

Tech-Histories Alive:
60 years of top research into neutrons in Garching
TUM Campus Munich, Vorhölzer Forum Munich
Center for Technology in Society (MCTS) and TUM
Emeriti of Excellence, TUM
www.mcts.tum.de/index.php?id=353

Thu. 31.01.2019 6 pm – 7.30 pm

Hidden Champions Career Lounge
as part of the TUM Career Days
TUM Campus Garching
Alumni & Career, TUM
www.together.tum.de/events

February 2019

Wed. 06.02.2019 5 pm – 6 pm

INSIDE\OUT – Guided tour through
the Research Pavilion
Guided tour
TUM Campus Munich
Chair for Structural Design and Alumni & Career,
TUM
www.lt.ar.tum.de/forschungspavillon

Thu. 07.02.2019 6 pm – 8 pm

Adventure Starting a Career
Advice from colleagues
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Thu. 07.02.2019 6.30 pm – 8 pm

Traffic today
Lecture
Deutsches Museum Verkehrszentrum
Am Bavariapark 5, Munich
Costs: 3 euro, students free of charge
Chair of Traffic Engineering and Control, TUM
www.vt.bgu.tum.de/veranstaltungen/verkehr-aktuell

Sat. 09.02.2019 9 am – 5.30 pm

11th Annual Congress of the
Tumor Center Munich – T2M Essentials 2019
Congress
Klinikum rechts der Isar, TUM, Munich
Costs: 30 euro
Tumor Center Munich (T2M)
Registration: www.t2m-essentials.de/anmeldung

Thu. 21.02.2019 – Sat 23.02.2019

9 am – 6 pm
Relaxation trainer, autogenic training
Further and advanced training course
TUM Campus in Olympiapark
Costs: 440 euro (standard), 390 euro (concessions)
TUM Sport and Health for Life www.weiterbildung.sg.tum.de

Tue. 26.02.2019 7 pm – 9 pm

TUM@Freising: How green is our future?
Water as a limiting factor in plant production
Lecture
Linden Keller, Veitsmüllerweg 2, Freising
TUM and Stadt Freising
www.freising.wzw.tum.de

March 2019

Sat. 02.03.2019 10.30 am – 5 pm

In the footsteps of National Socialism
in Obersalzberg
Excursion with viewing
Dokumentation Obersalzberg,
Salzbergstraße 41, Berchtesgaden
TUM Graduate School and Alumni & Career, TUM
www.together.tum.de/events

Wed. 06.03.2019 5 pm – 6 pm

INSIDE\OUT – Guided tour through
the Research Pavilion
Guided tour
TUM Campus Munich
Chair for Structural Design and Alumni & Career,
TUM
www.lt.ar.tum.de/forschungspavillon

Thu. 14.03.2019 6.15 pm – 8 pm

Adventure Management
Advice from colleagues
TUM Campus Munich
Alumni & Career, TUM
www.together.tum.de/events

Fri 21.03.2019 – Sat 22.03.2019 all-day event

Physical Activity and Prevention: Building
networks and designing intervention studies
Symposium
TUM-Akademiezentrum Raitenhaslach,
Raitenhaslach 11, Burghausen
Chair for Epidemiology and Faculty for Sports
and Health Sciences, TUM
www.epidemiologie.sg.tum.de/paps2019

April 2019

Fri. 05.04.2019 8.30 am – 6 pm

Geotechnics Day 2019
Collaboration between research and practice
Congress
TUM Campus Munich, Audimax, Arcisstraße 21
Costs: ca. 170 euro (free of charge for employees
and students of TUM)
Geotechnics Center, Chair and Examination Office
for Foundation Engineering and Soil Mechanics –
Extension Course, TUM
www.gb.bgu.tum.de/index.php?id=5

Thu 11.04.2019 7 pm – 9 pm

TUM@Freising: Trends in nutrition –
how food influences our health
Lecture
Linden Keller, Veitsmüllerweg 2, Freising
TUM and Stadt Freising
www.freising.wzw.tum.de

Asymptotic Pavilion

Innovative curve network – Guided tour at the Asymptotic Pavilion

Enjoy an explanation of the innovative re-
search by the project leader! The Asymp-
totic Pavilion “INSIDE \ OUT” is the visual
result of years of very successful research.
In the project “Repetitive grid structures”
at the Chair for Structural Design, ex-
perts from the fields of Mathematics, Civil
Engineering and Architecture examine the
structure of elastically curved networks.
This has led for the first time to the de-
velopment of a construction method that
makes it possible to build doubly-curved
grid structures out of straight – asymptotic
– strips with exclusively orthogonal joints.
The completed object, a 9 x 12-meter
pavilion is located during the anniversary
year in the inner courtyard of the TUM main
building in Arcisstraße.

During the guided tour for Alumni, pro-
ject leader Eike Schling will be providing
insights every first Wednesday in the month
into the development and construction of
the Pavilion.

Wednesday | 07.11.2018 | 5 pm – 6 pm

Wednesday | 05.12.2018 | 5 pm – 6 pm

Wednesday | 09.01.2019 | 5 pm – 6 pm

Wednesday | 06.02.2019 | 5 pm – 6 pm

Wednesday | 06.03.2019 | 5 pm – 6 pm

TUM Campus Munich
Inner courtyard main building
Arcisstraße 21, Munich



Registration: www.together.tum.de/events

A B C X Y Z

Alumni associations

Bund der Freunde der TUM

Bund der Freunde at the TUM is a large, long-established circle of friends from the TUM.
www.bund-der-freunde.tum.de

Professional and faculty Alumni groups

In more than 30 Alumni associations alumni stay in contact with employees and students of their specialist department, institute or faculty and use the opportunity to exchange ideas with like-minded people.
www.together.tum.de/alumni/gruppen

TUM Asia Alumni Network

The foreign branch of TUM in Singapore, the German Institute of Science and Technology - TUM Asia, maintains close contact with its graduates.
www.tum-asia.edu.sg

Library

Universitätsbibliothek der TUM

The TUM University Library is also open to Alumni. The sub-libraries on the Munich, Garching, Weihenstephan and Straubing campuses offer you a very comprehensive service.
www.ub.tum.de/alumni

Choirs

Garching Campus Choir

Rehearsal: Thursdays
6 – 7.40 pm
Garching Campus
Faculty Building Mathematics/Informatics
Room MI 00.13.009A.
www.ccg.tum.de

Weihenstephaner Musikwerkstatt

Rehearsal: Wednesdays
8.15 – 10 pm
Weihenstephan Campus
Central Lecture Hall Building, HS 16.
www.weihenstephaner-musikwerkstatt.de

TUM Choir

Eight project rehearsals
Munich Campus and Philharmonie
www.tum.de/unileben/musik-und-kunst/orchester-choere/tumchor/

University Choir Munich

Rehearsals: Tuesdays
7 pm
LMU Main Building, small auditorium
www.unichor.de

Cinema

TU-Film

The TU Film was founded in around 1955 and was called TU Film even at that time. Today the students still organize TU Film themselves and show more than 20 movies each semester.

MUNICH CAMPUS

Carl von Linde auditorium, HS 1200
Admission at approx. 7.30 pm.
Performance begins at approx. 8 pm.
Tickets cost €3/Double feature €5.
Organized by tu film e. V.
www.tu-film.de/programm

Orchestra

Big Band der Weihenstephaner Musikwerkstatt

Rehearsal: Thursdays
7.45 – 9.45 pm
Weihenstephan Campus, rehearsal room in basement of the central auditorium building
www.weihenstephaner-musikwerkstatt.de

Orchester der Weihenstephaner Musikwerkstatt

Rehearsal: Wednesdays
6.30 – 8 pm
Weihenstephan Campus, HS 14.
www.weihenstephaner-musikwerkstatt.de

Sinfonietta

Rehearsal: Wednesdays (during the semester)
Begins at 7.30 pm
Central Campus, HS 0120.
www.sinfonietta-muenchen.de

Symphonic Ensemble Munich

Rehearsal: Thursdays
7.30 – 10.00
Munich Campus, HS 0120
www.sem-muenchen.de

TUM Jazz Band

Rehearsal: Thursdays
6.30 – 9.00 pm
Munich Campus, HS 2100
www.jazzband.tum.de

Sport

TUM running meetup

Saturday 11 am
Munich
Meeting point: Milchhäusl am Englischen Garten
No registration required.
Contact: carl.ebbinghaus@tum.de
www.community.tum.de/gruppen/tum-laufgruppe/

Central University Sports Munich (ZHS)

As a member of the ZHS Förderverein, Alumni can apply to participate in university sports for a fee.
www.zhs-muenchen.de/foerderverein-des-zhs-muenchen

Languages

Regular English meeting in Garching

Tuesdays 1 – 2 pm
Garching Campus
Cneipe Campus
No registration required.
sprachenzentrum@zv.tum.de

Language courses at the Language Center

Alumni can take part in courses at the TUM Language Center if there is free capacity. Please send your inquiry stating language, level, teacher and time.
sprachenzentrum@zv.tum.de
www.sprachenzentrum.tum.de



Alumni Ticker

Nikolaos Abramidis (Degree in Architecture 2009) receives this year's ars viva Prize for the Visual Arts from the Association of Arts and Culture of the German Economy. ■ **Kai Acker (Degree in Management-oriented Business Administration 2001)** was appointed new Chairman of the Board on October 15, 2018 at KHG GmbH; he is in charge of technology/development/production and HR. ■ TUM has appointed the alumni **Max Aicher (Degree in Civil Engineering 1957)**, **Dr. Urs Brunner (Degree in Civil Engineering 1977)** and **Prof. Dr. Gallus Rehm (Degree in Civil Engineering 1951, PhD 1957)** deservedly as honorary senators. The three engineers have made a noticeable contribution to the reputation of their alma mater with their outstanding scientific, technical and business achievements. ■ On August 1, 2018 **Dr. Wolfgang Aumer (Master in Electrical Engineering and Informatics 2005)** became a Professor at the Technical University of Deggendorf. Prior to that he worked at the Technical University of Dresden as a scientific assistant. ■ An advanced grant to the sum of 2.5 million euros awarded by the European Research Council goes to **Prof. Dr. Marlene Bartos (PhD in Biology 1995)** from the Institute of Physiology I at the University of Freiburg. ■ **Prof. Dr. Martin Bednarz (Degree in Mechanical Engineering 2007, PhD 2014)** is new Professor for Innovative Production Processes and Digitization in Production at the Faculty of Mechanical Engineering at the Technical University of Ingolstadt. ■ The head of Architekturgalerie München, **Nicola Borgmann (Degree in Architecture 1998)**, has been awarded the Architecture Prize of the Federal State Capital Munich 2018. ■ **Falk Brem (Degree in Surveying 1998)** is the new head of the Office for Digitization, Broadband and Surveying in Rosenheim with external office in Wasserburg. ■ **Dr. Torsten Brückner (PhD Medicine 2007)** is the new Chief Physician at the District Hospital Rehau. Before that he was a doctor at the University Clinic in Regensburg in the position of Head Senior Physician. ■ **Prof. Dr. Kathrin Deiglmayr (Degree in Agricultural Science 2001)** was welcomed in May 2018 as a new member of staff in teaching and research at the Faculty of Agricultural Science at the University of Osnabrück. She will teach and research in the department for soil science. ■ **Prof. Dr. Claudia Eckert (Degree in Informatics 1986, PhD 1993, Habilitation 1999)**, Professor at TUM, and **Dr. Reinhard Ploss (Degree Mechanical Engineering in 1981, PhD 1990)**, Chairman of the Board at Infineon Technologies AG, have each been awarded the State Medal for Special Achievements in the Bavarian Economy 2018. ■ **Christian Günthner (Degree in Sport Science 2011)** most recently at Audi AG as Spokesman for the Department of Sports Communication, has been Manager Public Relations Europe at the European branch of Chinese electric car manufacturer Byton since the beginning of August 2008. ■ **Dr. Michael Heyde (Degree in Mechanical Engineering / Process Engineering 1989)** joined Austrian packaging manufacturer Alpla on July 2, 2018 as Head of Recycling Technology. He was most recently Head of Product and Process Development at *Der Grüne Punkt – Duales System Deutschland GmbH*. ■ **Prof. Dr. Gunter Henn (Degree in Civil Engineering 1973, PhD Architecture 1975)**, **Victor Schmitt (Degree in Civil Engineering 1965)** und **Prof. Dr. Sophie Wolfrum (University Professor at TUM)** have been awarded the 2018 Leon-von-Klenze Medal by Bavaria's Building Minister Ilse Aigner die 2018. ■ The Clinic for Orthopedics of the Marienstift in Arnstadt has appointed **Prof. Dr. Maik Hoberg (Habilitation Orthopedics and Trauma Surgery 2010)** as new Medical Director and Chief Physician. He was most recently Managing Senior Physician and Head Chief Physician with a focus on Endoprosthetics at the Orthopedic Clinic *König-Ludwig-Haus* in Würzburg. ■ **Heiko Huber (Degree in Mechanical Engineering 2011)** became Head of *UnternehmerTUM* accelerator TechFounders in July 2018. He brings considerable experience to the interface between start-ups and industry: he most recently worked at Siemens venture unit Next47, responsible for start-up investments and employee spin-offs. ■ **Max Kaltenhauser (Degree in Sport Science 2013)** is the new full-time ice-hockey youth trainer for EV Regensburg. In the last five years he was already full-time youth trainer for the Starbulls Rosenheim. ■ **Prof. Dr. Casimir Katz (PhD in Civil Engineering 1982)** has been awarded this year's Konrad Zuse Medal. He is Honorary Professor at TUM und Chairman of the Board of the company he founded in 1987, SOFISTIK GmbH. ■ For his doctorate thesis on "The simulation of arterial growth" at TUM, **Dr. Sebastian Kehl (Degree in Mechatronics and Information Technology 2011, PhD Mechanical Engineering 2017)** was awarded the Arburg Dissertation Prize 2018. ■ The supervisory board of *Kulmbacher Brauerei AG* has appointed **Mathias Keil (Degree in Brewing and Beverage Technology 2000, Degree in Management-oriented Business Administration 2003)** as its new Chairman of the Board for the areas Finances and Technology. Prior to that he worked for the *Paulaner* brewery group, where he was Head of Controlling and a member of the management. ■ **Dr. Katharina Kolbasseff (PhD Medicine 1989)** took up

her position as Chief Physician at the Institute for Radiological Diagnostics at Mainkofen District Hospital on July 1, 2018. Before that she worked in inpatient and outpatient care at the Radiology Society in Deggenhof. ■ **Johannes Krieg (Degree in Mechanical Engineering 2005)** recently became one of two Chairmen of the Board at the Oberstdorf Kleinwalsertal Bergbahnen. He will be in charge of Operations and Infrastructure. ■ **Oliver Kurth (Degree in Brewing and Beverage Technology 2000)** won the title of World Champion at the World Beer Cup in Nashville (USA) in the export beer section. He is the first master brewer in the *Brauerei Schussenrieder* in Oberschwaben. ■ **Julya Michl (Master in Renewable Resources 2016)** is the Climate Protection Manager for the City of Regen. Prior to that she worked at the Regen Office of Agriculture. ■ In July 2018, the town of Freising awarded the Golden Citizens' Medal to **Prof. Dr. Ludwig Narziß (Degree in Brewing and Beverage Technology 1951)**. He worked for almost three decades at the Chair for Technology, Brewing and Food Technology at TUM in Weihenstephan. ■ **Dr. Mathias Obergrießer (Cooperative PhD TUM/OTH Regensburg Civil Engineering/Project Management 2016)** was appointed to the endowed professorship for Digital Construction at the OTH Regensburg on September 1, 2018. ■ **Prof. Dr. Carola Paul (Master in Forestry and Wood Science 2008, PhD 2014)** was appointed Professor for Forest Economics and Sustainable Land Use at the Georg-August-University of Göttingen on April 1, 2018. Before that she worked in the area of Forest Inventory and Sustainable Use at TUM. ■ The senators of Acatech – German Academy for the Technical Sciences have appointed Infineon CEO **Dr. Reinhard Ploss (Degree in Mechanical Engineering 1981, PhD 1990)** to the Acatech presidium. ■ **Prof. Stephan Schiller, PhD (Degree in Physics 1987)**, is to receive one of the highly renowned Advanced Grants, which the European Research Council (ERC) awards to top researchers. ■ **Christian Schlosser (Degree in Geodetics and Geoinformation 2003)** is the new Head of the Office for Digitization, Broadband and Surveying in Freising. ■ The supervisory board of Funkwerk AG has appointed **Dr. Andreas J. Schmid (Degree in Physik 1999)** as an ordinary member of the board of Funkwerk AG. Prior to that he was Managing Director at *Schaltbau GmbH*. ■ **Dr. Christian Schwarz (Degree in Chemistry 1994, PhD 1998)** is the new Chief of Hamburg's Fire Service. Prior to that he was Head of the State Fire Service College in Geretsried. ■ **Prof. Dr. Thomas Setzer (PhD in Informatics 2007, Habilitation 2013)** is the new Professor for Business Informatics at the Catholic University of Eichstätt-Ingolstadt. He most recently headed, in his position as Professor, the Corporate Services & Systems research group in the Economic Sciences Faculty at Karlsruhe Institute for Technology. ■ **Prof. Christoph Valentien (Degree in Landscape Architecture 1964)** and his wife **Prof. Dr. Donata Valentien (studied Landscape Architecture)**, Honorary Professor at TUM, have received the Bavarian Architecture Prize 2018. ■ **Ludwig Wachter (State Examination as a teacher at vocational colleges 1998)** has been new Head of the Vocational College External Unit in Roding at the State Vocational College of Cham since August 1, 2018, where he has been working since 1999; he has been Director of Studies since 2016. ■ **Josef Wagner (Degree in Electrical Engineering and Information Technology 1993)** is a new member of the Scientific Advisory Council of the Federal Association for eMobility. The expert for electricity grids and network technology has been a member of management at *LEW Verteilernetz GmbH* since 2018. ■ In July, the *Körber* Foundation awarded the first prize in the German Study Prize 2018 in the Natural and Technological Sciences section to **Dr. Johannes Wandt (Bachelor in Chemistry 2010, Master 2013, PhD 2017)** for his dissertation on "Optimized lithium batteries for electric vehicles". The chemistry graduate aims with his research, among other things, to considerably reduce the time for charging batteries. ■ **Dr. Johannes Wechsler (PhD Economic Sciences 2011)** began working on July 1, 2018 in management at *MediaMarkt-Saturn IT Solutions*. He moved to this position from his job as Chief Information Officer at *ProSiebenSat.1 Media SE*. ■ New Head of the Office for Nutrition, Agriculture and Forestry in Weiden is to be Senior Agricultural Director **Reinhold Witt (Degree in Agrarian Science 1989)**. Since 2012 he has headed the Office for Nutrition, Agriculture and the Agricultural College in Nabburg. ■ **Prof. Dr. Xiaxiang Zhu (Master ESPACE 2008, PhD Surveying 2011, Habilitation in the area of Signal Processing 2013)**, Professor for Signal Processing in Earth Observation at TUM, has received the Leopoldina Early Career Award 2018. ■ **Prof. Dr. Markus Zweckstetter (PhD in Chemistry 1998)** will receive 2.5 million euros in the coming five years from the European Research Council as part of the ERC Advanced Grant. The scientist researches into proteins that play a considerable role in illnesses like Alzheimer's. ■

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PHOTOS AND GRAPHICS

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KontaktTUM apply in equal measure to men and women. The sole use of the
male form in some places serves merely to render the texts easier to read.
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The finale of our anniversary year Dies **Academicus** 2018

WE ARE TUM

Celebrate the traditional university Dies academicus festivities with us in the 150th year since our foundation – and find out where TUM is heading in the years to come.



PROGRAM

Welcoming address and festive speech: “We are TUM”
by Prof. Dr. Dr. h.c. mult. Wolfgang A. Hermann, President of TUM

Academic honors

Address by the student’s representative body

MUSICAL PROGRAM

Performance by the TUM Jazzband.

DATE

06.12.

Thu. Dec. 06, 2018

10 am – 1 pm

PLACE

TUM Campus Munich

Audimax

The Technical University of Munich congratulates
the Free State of Bavaria on its 100-year anniversary.

Two who have written history.



100 years
Free State of Bavaria

150 years Technical
University of Munich



Kurt Eisner
1918

First Minister President of
the Free State of Bavaria



Karl Max von Bauernfeind
1868

First Director of the
“Polytechnic School” in Munich
(today the Technical
University of Munich)