

Taylor Vision

TRIP SPECIAL

Port Betaald



PME NEWS
MARCEL DE LAAT
NEW BOARD INTRODUCTION


TUDelft



Issue November 2014

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From the board

It went so fast, we have been board for well over a year and thus it's time to hand the Taylor scepter to the new board! We have selected a very capable 5 headed beast to represent Taylor the coming year!

Every year the Taylor board contributes something in their own way, and for us it was all about making Taylor more official, which mostly took place behind the scenes. We revamped the website, created a new accounting system, documented everything that was missing; in short, we made Taylor a smooth running machine! I think the future boards will benefit from this greatly, which should provide some great activities!

Of course we also had to do something awesome, which we did by organizing the traditional business trip to Shanghai, and I am proud to say the trip was a great success! Of course we gathered some stories for in this Vision!

Colofon

In this Vision you find Marcell's experiences with studying abroad. He spent one semester in Lausanne, Switzerland where he participated in the Erasmus Mundus exchange program at the École Polytechnique Fédérale Lausanne (EPFL).

Furthermore you can read up on new PME stuff in the PME news section. The new board will quickly introduce themselves.

Finally you can give our riddle a try and maybe bring home the movie tickets.

A big thank you to everyone who was willing to write a section for this edition.

We wish you a lot of fun reading this Vision.

We had an awesome year as Taylor board! We love you!



Board

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Pjotr Sebek

Secretary
Jan Willem Feitsma

Treasurer
Michiel Dondorp

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Meet the new board



Anton Driessen Anton is a 22 years old student from the Engineering Mechanics department. He has just started his graduation project in the field of topology optimization. His hobby is swimming and he likes to go running every now and then. His fine developed feeling for numbers made him the perfect treasurer for our board.



Rolf Swuste Rolf is a 26 years old mechatronic system design student and will start his graduation project at TNO, researching scanning probe microscopes. Since this giggly teddy bear has been walking around in 3ME for ages he knows the goings of the TU and its personnel pretty well. Nevertheless, Rolf leaves the internal affairs for Stefan and is going to take care of the external contacts.



Sarah Aalbers Sarah is 23 years old and also specializes in Engineering Mechanics. Over the past few years, she has travelled a lot, visiting no less than 4 continents. Being the only woman on the board is not easy, but 5 years of studying in Delft combined with some Lacrosse training has been a perfect preparation. She will be our secretary.



Stefan Lampaert This one man wonder can surprise you with different facts that can turn out to be true, or totally fictional. His vast knowledge he has inherited from his time at dut (the guys that play with those toy cars) .This born army ranger wants to try his luck as an field engineer at our armed forces. To practice for his tour of duty he's stationed at the internal affair chair, where he is able to monitor the taylor drinks, and keep an eye on the education.



Thomas van der Linde As a true PME'er the hobbies of Thomas van der Linde include MatLab and Comsol to tackle every dynamics problem. If time allows, he can be found in the Alps to climb mountains with his study association Yeti. After seven years in Delft and one year in the board of Yeti Thomas gained lots of experience. All this will make Thomas a great chairman of Taylor.



Bas Smit is a winner!

Delft, 23 June. It took some time until we received a response to last visions riddle. Apparently blue eyes on an island proved to hard for many. Not for Bas though as he was the first and only one who came up with the solution. This yielded him two movie tickets, and the right to carry the TaylorTrophy. Well done Bas.



"...A truly happy winner holding the trophy..."

New Secretary

My name is Eveline Matroos, age 37, married and mother of two boys. Since September I am working as a secretary for the department of PME within the faculty of 3Me. Before this job I worked for a Public Affairs office in The Hague and as a secretary for the Minister of Economic Affairs. From December 2007 until July 2011 I lived on Curacao (Netherlands Antilles), where I worked for The Financial Institute, a training facility for Financial oriented courses and workshops. It seemed nice to, once again, be working within an educational environment. I am very thrilled to have this opportunity at the TU and am looking forward to an inspiring time! <http://nl.linkedin.com/in/evelinematroos>



T. van der Horst Experimental Dynamic Substructuring using Time-domain Deconvolved Impulse Response Functions. **EM**

H.P. Pereboom
Sensitivity Analysis in Passive Vibration Control. **EM**

M. Café
Nanometer Precision Six Degrees of Freedom Planar Motion Stage with Ferrofluid Bearings. **MSD**

G. P. Velders
Sea Spider Concept; Safe and Comfortable Marine Personnel Transfer.

M. R. Serphos
Incorporating AM-specific Manufacturing Constraints into Topology Optimization component Mode Synthesis for Geometrically Nonlinear Structures. **EM**

M.R. Nugteren
Dynamic Analysis of a Resonance Based Micro Air Vehicle Structure
EM

D.D. van den Bosch Impulse Based Substructuring Unrav-elled: Simulation and Coupling of Structural Dynamics in the Time Domain control of Voice-coil Transducers.

J.H. de Jong Rigid-body Simulation using Gaming Engines; A Study on the Usability of Gaming Industry Software for Simulating Engineering Problems.

F.S.M.S Peters
Realizing a Small UAV for Medical Transport in Developing Countries.

A. Shridhar
Nonlinear Model Reduction of Cable Slab Dynamics. **EM**

M.H. te Morsche Design of an Independent Front Wheel Steering System with Optimal Driver Feedback Complex Power Approach to Characterise Joints in Experimental Dynamic Substructuring **AUT**

G. Uitslag Statically Balanced Compliant Mechanisms by Tuned Post-Buckling Behaviour.

D. Restrepo Mejia Modeling and Experiments of Extrusion Based 3D Printing for Pasta Printing.

A. Zondervan Design of a Free-space and Single-mode Fiber Coupling Device

X. He 6-DoF Stage Position Measurement Concept for Microscopy with one 2D Position Sensitive Detector (PSD) **MSD**

R. J. Dolleman Graphene Based Pressure Sensors; Resonant Pressure Transduction using Suspended Atomically Thin Membranes **MNE**

Ö.G. Atar Graphene-Propagating Wave Interaction by means of Surface Acoustic Waves (SAW) Devices **MNE**

Photo impression



Taylor Trip 2014

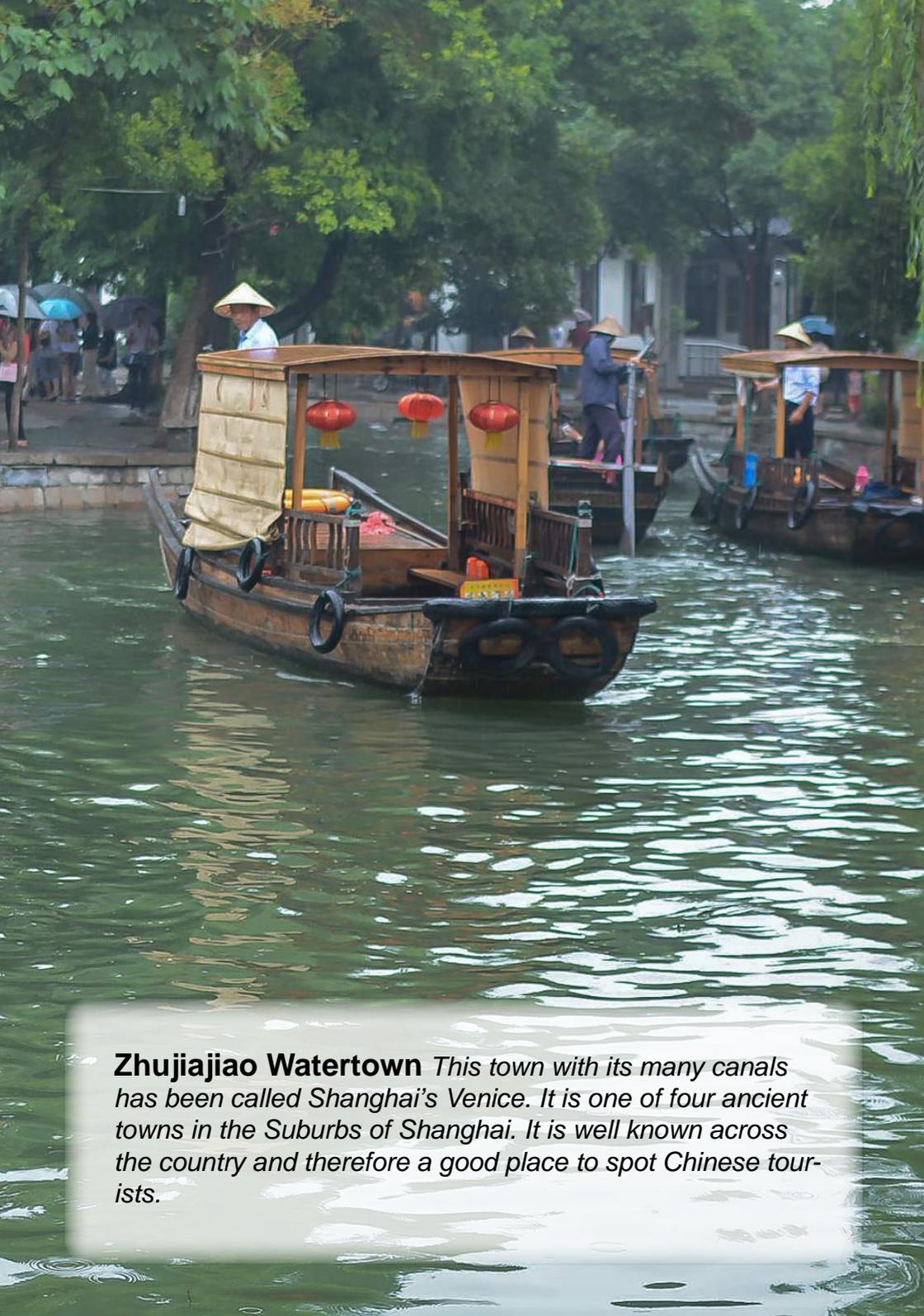




平太國中
SHANGHAI

Lujiazui *Shanghai's Financial District.*
Home to some of the world's tallest skyscrapers.





Zhujiajiao Watertown *This town with its many canals has been called Shanghai's Venice. It is one of four ancient towns in the Suburbs of Shanghai. It is well known across the country and therefore a good place to spot Chinese tourists.*

Shopping on the streets.

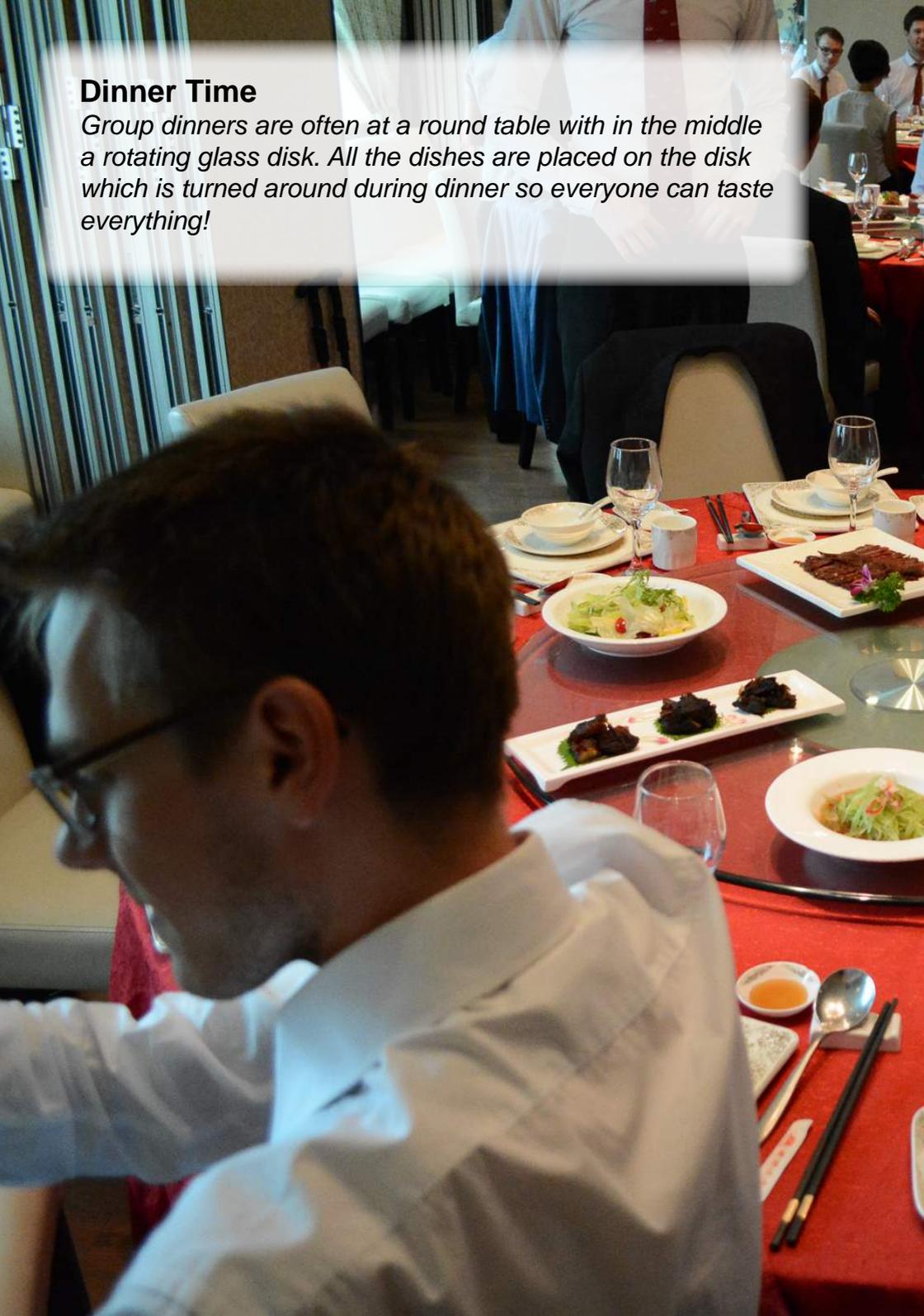
Everywhere in China, people are found selling goods on the street, often homegrown fruits and vegetables. This continues deep into the night. Any point where there is space is a place to sell goods, in this case even on the road.





Dinner Time

Group dinners are often at a round table with in the middle a rotating glass disk. All the dishes are placed on the disk which is turned around during dinner so everyone can taste everything!







Market street

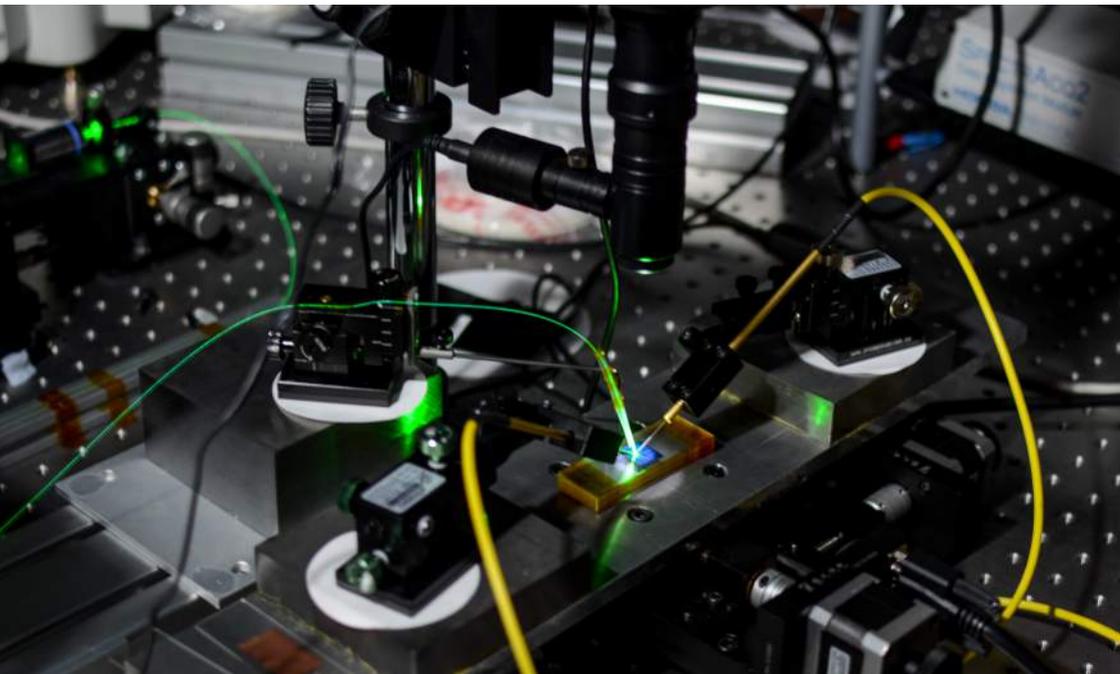
Local markets are found everywhere, often in alleys. Here individual vendors sell anything from turtles to fruits&vegetables. Fish are slaughtered on the spot and it smells bad, but it is wonderful to see and walk through!



口味：巧克力



On the first real day of the Taylor trip, a visit to the Shanghai Jiao Tong University was planned. The Taylor board decided to enrich our western souls with some Chinese punctuality and “group over the individual” mentality, by departing at exactly 8.00, leaving two students behind. (red: We like precision in the time domain as well) With everybody suited up, the journey to the university was quite a challenge. With temperatures up to 37 degrees Celsius, the ventilator spots on the metro stations were quickly claimed. I think the Chinese were also quite impressed by our determination to look fancy, as everybody stared at us (although most of them wanted pictures with the 2m tall guy). At the university the very friendly Viva Du welcomed us. She arranged the day at the university, which started by a presentation by prof. Bauchau, and a meet & greet with other professors. This was followed by a lunch in the campus restaurant, and a campus/lab tour afterwards. The campus b.t.w. was immense, with very fancy buildings. Along with our visit there was a selection procedure





going on to select the new freshmans. From all over China they followed a week's program and hoped to get selected by taking tests and talking to the professors. Getting selected means a lot since the University has a collaboration with Michigan University, and the students get to study in America too. This surprised most of us, but the university has the exact same curriculum as Michigan University. After the visit we went for dinner and back to the hostel. Most of us went to bed early-ish because the semi-final of the world championship soccer started at 4 a.m.. Apparently the match was also broadcasted live on a big screen on campus, were the Chinese students would get up in the middle of the night to watch The Netherlands vs. Argentina.

The night before we went to VDL the Netherlands was playing Argentina, which started at 4:00 in the night for us! A lot of people were watching including Chinese, who for some reason massively gamble on soccer games. Needless to say, the bus ride to VDL was very quiet.

After an hour of surprisingly smooth traffic, we arrived way too early in Suzhou where VDL is located. We were warmly welcomed with coffee-milk instant powder which is mostly the only coffee they have in China. But considering the circumstances, any coffee was more than welcome! We started talking with 2 expats from the Netherlands who explained their experiences of working in China; great to hear some stories of Dutch people! They had worked there for quite some time and could explain everything to us about what's it like to leave the Holland and set out on adventure in a foreign country.

After that, Ton de Haan, the company manager, gave a really nice talk about managing a Chinese company. It was very hard for him to get loyal employees, since loyalty doesn't really exist in China. At his birthday, he imported 800 bitterballen from Nanjing, which is an hour by train! He said the employees really appreciated that gesture and they were very happy to work there. Finally, we ended with a company tour, seeing all the producing facilities. Ton told us that it is very hard to keep quality in control. Everything that comes in has to be checked, because any product received from a Chinese company is not guaranteed to be up to western standards.

At the end of the day, the bus driver dropped us off in Suzhou, totally not at the location we intended so we were lost immedi-

ately:~) We ended up going to the city center to look at Suzhou's world famous gardens, but they were all closed. Of course they were because it was evening! I went back to Suzhou later, and they truly were the most beautiful gardens I've ever seen!

The city center was nice as well and we ended up eating fried rice at a little place, who probably never had western customers. They were so happy we ate there! Smiling all the time and they clapped when we got our food. We were lost again and just managed to make it back in time to catch the bus ride home; it turned out we walked around the bus in circles, no wonder it took so long! After the bus ride home everyone was very tired and we had a well-deserved beer at the hostel. All in all a very nice day!



On July 11 we went to Zeiss Shanghai. After a few metro transfers, we got on a free bus to the high-tech park where all the companies are located. Zeiss was at the corner of a crossing, sharing the same entrance and building with IBM. What a surprise! Zeiss doesn't have its own territory! We arrived a bit earlier than expected. However, Zeiss people managed to let us in. Then the most important machine was discovered, A REAL COFFEE MACHINE! Of course for the Dutch students who hadn't had decent coffee for days! The queue of us for coffee was marvelous! I could jump the queue because I only needed hot water. I had so much water that Jan Willem said: are you leaking? It was fun! I will never forget him. He still didn't know how to spell my name after the trip!

The programme was very well organized. First, the CEO of Zeiss Shanghai gave us a presentation about the company in general. He seemed a very smart and a nice guy with a heavy German accent. A guy showed us how the eye surgery went with their machine, which was so scary. I am so happy that I don't need to poke somebody's eyes for a living! But of course great respect to the surgeons. Dr. Wang, director of research and technology, told us the short history of the research and development centre in China, which was established in 2012. He also shared a moving story with his very good friend many years ago and wiped his tears. I was wondering, how affectionate a man could be, how much he has been through. I think everyone admired him as I did. He was definitely the star of the day! And he proudly presented his daughter and hunted for a guy, like what Rob did during the Euspen dinner! So parents all over the world are the same! After his presentation I asked Dr. Wang about working in Zeiss. He was willing to receive my resume for his department or hand it over to other departments. Again, star of the day! We had a tour in the production line and saw the awesome CMMs and micros-

copy department with cool stages and bearings. Inside the microscopy department, we could see all the mechanisms, motors and stages. It's like heaven for the MSDers! Got the best gift, lens wipers! I can make better pictures now! In the end, there was of course always the nice group pictures from Michiel!

In the evening we had dinner together in a small, nice, cheap local restaurant. I think all the waiters were shocked by such a big bunch of foreigners. We all managed to feed our stomach well. At the table, Michiel surprised me with his good Chinese! The restaurant was so small that there was no bathroom. Then this big bunch of people, including me, went to a fancy restaurant on the other side of the crossing for its bathroom, awkward! Then we walked to the Bund where all the tourists were. I asked people to make group pictures of us. Crazy Dutch students started singing loud. There were like 10 people standing in a line making pictures of us. It was funny! It's impossible not to be happy in such a group! After we finished our show, we went to a very high and expensive bar with all the view of the Bund. Rolf ordered 3 different cocktails and I could first choose the one I like, nice! Since I stopped my drinking practice after Jasper, Jeroen, Rudolf and Jan left, I had to drink very slowly not to get drunk. Even slow like that, I felt my face burning. Poor Ruijun without drinking ability. Then Rolf started weird conversation with all the people who asked me to drink faster. Haha, that was very nice. Anyway, some left first because I was too slow. Jan Willem said they would first go to the karaoke and later we could join them. It turned out that they didn't go. Again, Jan Willem! BUT we went! First asked the reception of a hotel where the closest karaoke was. On the way, I accidentally saw one which was much closer. When you don't expect something, you surprisingly get it like a gift! There our band, 2 Blood; Pjotr, Rolf and me, gave our first performance, Zombie from the Cranberries. We got a lot of applause. As a new band, that was very successful! The boys had a lot of beer. We were in the karaoke for around 4 hours. After the beer was finished and we didn't have money to buy any beer, we went back to the hostel. I had great fun watching Dutch people singing in karaoke!

Zeiss + karaoke, it's definitely the best day for me!

Last but not the least, always the acknowledgements.

During one of the presentations in Zeiss, I didn't feel well and went out. Sarah came out after me asking if I were ok. I really appreciate that. Thanks Sarah!

Rolf, thanks for your weird conversation to other guys to let me drink slowly.

Thanks Sanne and Thijs, for dancing with me most of the time when we were in the strange dancing club. I couldn't dance and felt very unsecured there. You made my day! And Sanne, thanks for the water when we were back at the hostel! Thanks Daan and Jana, for your toilet paper earplugs and real earplugs!

Thanks Jana for the laundry!

Paul and Arjan, thank you for carrying my humongous suitcase!

Thanks Erik for letting me win three times when we played pool.

Pjotr, thanks for my first Breezer in China.

Thanks Taylor board, for the nice picture! And too much amount of instant noodles as breakfast, even for a Chinese!

Thank you all for your support, when the guy was not happy with my translation. You were always on my side!

Thank you all, for your company, for the fabulous trip! It's my best

trip ever and I love you all!



It was Monday that we visited a real Chinese company, namely Zvision. Of course this didn't stop us from partying that weekend or watching the World Cup soccer final that was played Sunday night. Without much sleep we prepared for the four hour journey to the companies head quarter. We figured that we could get some sleep in the bus, such that we would be crisp by the time we got there. But our guide had other plans. During the bus ride we were entertained with karaoke. After she had sung a couple Chinese songs we were invited to sing a Dutch song. So, we gave an unforgettable performance of the Saint Nicholas song "Zie ginds komt de stoomboot".



Even more tired than before, we arrived at Zvision where we got a presentation about the company and a tour. The tour brought us to the testing area where the machines were checked on their proper functioning. Z-vision builds machines to automatically test LED's on all kind of properties and sorts and package them. The machines were opened such that the mechanisms were clearly visible. It was truly a joy for us engineers, especially for those in track mechatronics, to see those amazingly fast moving parts in action.



Next it was time for lunch. The bus brought us to a luxurious hotel. At the entrance a huge sign that said something like: "Welcome honored study association Taylor of Delft University of

热烈欢迎荷兰代尔夫特理工大学Taylor协会来我司参观交流!
WELCOME Study Association Taylor of Delft University of Technology to ZVISION!



Technology to ZVISION". Inside a lavish lunch was served. Completely satisfied we left the dining room because the case study was waiting for us. We were guided to a chic conference room, with nameplates indicating our seats, nice bowls of fruit and tea that was refilled after every sip by waitresses waiting in the corners of the room. At the head of the table the CEO, CTO and CFO were sitting, in the back some engineers were present. This was the time that we had to show our knowledge and competence. A video was made to explain the problem they were facing. We all watched the video closely, a light bulb was moving over a production line and at some point something had to be screwed onto the light bulb. At that point a problem occurred. The question was: "how do we fix this?". Completely surprised by this question, we asked for more details about the problem. The communication was extremely difficult because they did not speak English and had limited engineering knowl-



edge. Luckily, Ruijun was there to translate and save the day. But still they were unable to make the problem clear, so we watched the 20 seconds video some more. Because the video was not bringing us any closer to a solution, some ideas were suggested. But the CTO wiped them all off the table because they were not good and too theoretical, they sought a "practical solution". The hierarchical structure was remarkable. The engineers in the back of the room did not say a word during the conversation only the CEO and CTO were talking to us. Soon it became clear that we could not provide them with a practical solution. The CTO tried to blame Ruijun for this, because her translation would have been bad. This made the already weird situation even more awkward. After two strange, I mean of course different, hours the case study ended with some polite words of the CEO.

For some relaxation Zvision planned a walk through the park along a lake after the intensive case study. In the bus to the lake more karaoke was done and we learned a traditional Chinese tale from Kun about a very rare white snake. Why the snake was white remained unknown, but did not impair the story. The walk along the lake was refreshing and afterwards we went to a restaurant to have again a very nice meal. Late at night we came back at the hostel, exhausted but an unforgettable experience richer.



For the last day of the Taylor Trip an excursion was planned to AVIC Commercial Aircraft Engine Co.

Ltd. (ACAЕ). ACAЕ is a 10 year, multibillion dollar investment of the Chinese government with the aim of developing its own aircraft jet engines after the US, Britain, France and Russia. China is currently importing jet engines and it's the only part which withholds China from building their own airplanes. A brand new 1 km² achieve this goal. After arrival at the site, we were received in a luxurious meeting room in the customer center and got to see an awesome 3D animation movie of their jet engine design. After the technological insight a company presentation was given which showed the immense scale and ambition of the project. After 5 years into the project, the focus is still on R&D since 600 out of the 700 employees are currently working on the design and realization of the first prototype. This explained the emptiness of the massive customer center which was built for a later phase of the project. After the presentation there was the opportunity to ask questions to various employees about the status of the project and ACAЕ's position relative to its competitors. Overwhelmed by the vastness and slightly intimidated by the Chinese technological rise, it was time to say goodbye. After shooting some LinkedIn profile pictures in the impressive lobby, the visit ended and the bus brought us to the Longhua temple complex. Some suited-up, some casual and some creatively mixed - while-subjected to tropical rain - we absorbed the Chinese religion and culture in one of Shanghai's largest and most impressive temples. After drying up at the hostel it was time to hit the town for the final night out. Taylor legend Jeffrey arranged free entrance and drinks for the whole group in one of Shanghai's many luxurious clubs. Once again we learned that the Chinese know how to make money as well how to spend money. Many of the VIP tables were filled with laser(!) light decorated

champagne buckets - a PME must-have - sadly not included. The socializing and dance moves continued until the early hours

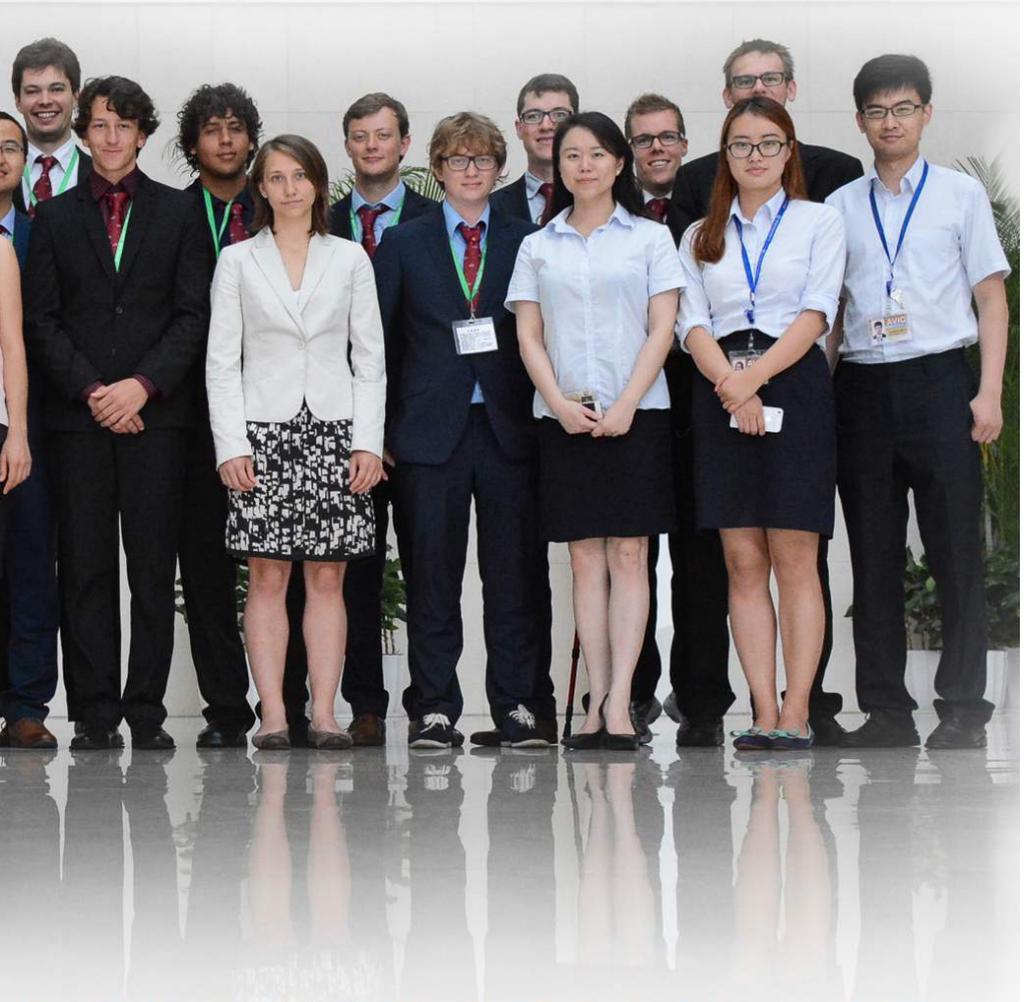


Taylor



- which some of us might or might not remember - and marked the end of an epic trip: Shanghai 2014.

Thank you for the interesting visit!



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Studying abroad

Marcel de Laat

Last year I started the master PME. During the year the idea arose to go abroad to finish the final courses of my master before starting my graduation project. I chose to go to one of the most beautiful places in Europe: Lausanne, Switzerland. During one semester I participated in the Erasmus Mundus exchange program at the École Polytechnique Fédérale Lausanne (EPFL).

Lausanne is situated in the heart of the French speaking part of Switzerland, on the shores of lake Geneva. It is known for its cozy medieval city center, an astonishing view on the mountains and lake, the headquarters of the IOC (and many other international federations) and of course the EPFL. These were the ingredients for a great semester with a lot of hard work, learning a new language and enjoying the mountains as much as possible!

I picked courses from mechanical- and micro engineering to match my PME program. Two of the courses I picked were taught in French. My French was not so good at the beginning, since I only learned it for five years in high school, and that had been quite a while. But by taking two language courses, following my lectures in French and speaking as much as possible with my



French friends, I made a huge progress in a short period of time. It is great to experience a day by day improvement of your comprehension of the language. I think going abroad and just throwing yourself into the deep is the most effective way to learn a language.

The exchange semester was not only about studying, I tried to enjoy my new environment as much as possible during my free time. I brought my mountain bike to Lausanne which was a great way to escape Lausanne and discover the mountains near the city. During summer time I did a lot of hikes in the Jura and Alps, enjoying nature and the astonishing views. When the winter started and the snow started falling I went on a few ski trips. Ski resorts like Verbier, les Diablerets or Portes du Soleil are reachable within an hour. I know, the Swiss life is a tough one!

I would definitely advise everybody to explore the possibilities to go abroad. In the master phase you can do an exchange semester, there is the possibility to do an internship in another country, or maybe it's even possible to do your entire graduation project at the other side of the border. It is a unique way to experience a new country, to really learn a new language and to meet a lot

of international friends. You will discover new food, other habits and you get the possibility to try new sports that you might never have heard about before. Don't hesitate, just do it!



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Pjotr's Predicament

In a castle far far away there lived a princess. Each day she was wandering through the castle hoping for a prince to arrive. The castle has 17 rooms in a row. Each room has a door to the outside, and there is a door between adjacent rooms. The princess spends each day in a room that is adjacent to the room she was in the day before.



One day, a knight in shiny armor entered the castle to woo for the princess. The housekeeper explains the habits of the princess and the rules to him: Each day he may knock at an outside door of his choice. If the princess is behind it she will open and they will live happily ever after. If not, nothing happens, and he gets another chance the next day. The prince has to find the princess in 30 days to marry her.

Will they live happily ever after?

Mail your solution to taylor-3me@tudelft.nl with subject PjotrsPredicament to apply for a chance to win the movie tickets.



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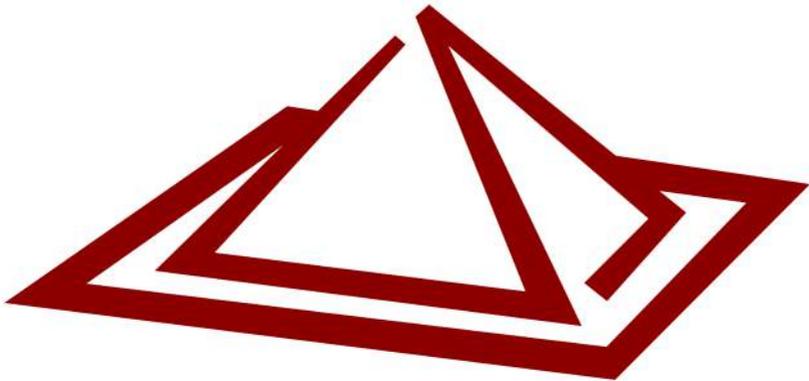
If you have any comments ideas or questions about Taylor and its activities, feel free to contact us.

Also we would be very happy to receive any comments or new content for the next issue of the Taylor Vision. For example: Articles on PhD work or on your graduation thesis, internship experiences, or quotes from your favourite teacher.

You can contact us at:
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