



Taylor Vision





About us

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Edition

Winter edition

History

Taylor is the study association related to the department Precision and Microsystems Engineering of DelftUniversity of Technology. The association was founded in 1988 to enhance the study experience of the students. The Taylor Foundation, in its legal form, was subsequently founded in 1992, making it an official organ in the TU Delft. During this time, the department changed its name from “Production Engineering” to the PME you are all familiar with.

In contrast to what many people think, Taylor is not named after the famous mathematician known for the Taylor expansion. It is named after the mechanical engineer Frederick Winslow Taylor, who was active in production engineering and industrial efficiency.

The logo of Taylor was inspired by the tip of an Atomic Force Microscope, an instrument that requires technology from all the divisions of the department.

Taylor aims enhances the study experience of the students by: trying to improve the relation between the students and the department staff, bringing the students in contact with the industry, providing the department with student feedback about courses and, last but not least, organizing recreational events to de-stress from the hard working life as a PME student.





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From the board

Dear reader,

It is an honour to present to you the first Taylor Vision of the Taylor board of 2017/2018! You already received an extensive Japan version of the magazine, but now it is time to look at everything that has been going on here in Delft.

There are a lot of new developments at the PME department this year. It is the first year that PME consists of the two tracks High Tech Engineering and Optomechanics. A large group of new students signed up for HTE, which is similar to the old PME track. It is also nice to see that five students decided to give the Optomechanics pilot a try. All of these new students started with the usual introduction week, where they got to know each other and the department. This is also when Dispuut Taylor was introduced, starting of the year with drinks at the PME square. This was only the beginning, because during the first semester Taylor organized many activities with lots of students who joined, but more on that later in this Vision!

Time flies when you are having fun and the first semester has already come to an end. The students finished their exams and after the short break everybody is ready for a new semester, with new activities. The usual lunch lectures, excursions and drinks are already planned, but there will be one extra special event, and that is the celebration of the 25th anniversary of Taylor!

When I registered for PME I had no idea what was going on at the department. I knew about the challenging and interesting course program, but not so much about the diversity of the projects or the enthusiasm of the staff and the students. I discovered that PME is definitely one of the most active departments on 3mE and I think I can speak for the rest of the board when I say that we are proud to be a part of this department and we look forward to another semester with many activities!

See you there!

Gijs van der Velden





Taylor Events: 2nd semester.

It should be clear by now that we organize quite some activities this year. In the second semester we will be having a little less activities than in the fully packed first semester, but they will be interesting none the less.

We will start Q3 off with a Python Workshop given by our very own Alejandro Aragón.

The week after we will be heading to Germany for a **company** visit to **Denso**. The quarter will be concluded with two **lunch lectures** by **CCM** and **ASML**.

As we are still working on the activities for Q4, you will receive news on them in due course. We can however already announce the **company visit to ASML**, which will be on May 17.

And ofcourse the **Taylor Trip** during the summer holiday! We hope to see you all at the activities and of course at the monthly receptions!



PME news

NERI Event

On the 25th of October, the very first event of the Nano Engineering Research Initiative (NERI) took place. NERI aims to improve collaboration between the PME department and industry in order to bring nanoscience to real industry applications. During the event, many researchers from the PME department showed their projects to representatives of about 50 visiting companies. Moreover, the CEOs of Krohne and Nexperia signed a long term contract for intensive collaboration with the TU Delft, marking the official start of NERI.

Taylor Lustrum Celebration

To celebrate Dispuut Taylor's 25th anniversary, a lustrum event will be organized on the 9th of March! During the evening, there will be a dinner, followed by a party including drinks and a live band. For more information on this event, take a look at page 26 or go to our website.

Taylor Trip

During the December drinks, none other than President Trump came to the PME department to announce that this year's Taylor Trip will go to Silicon Valley, near San Francisco. To join the Taylor board on this amazing study trip, you can sign up by making a motivation letter or movie clip on why you want to see Silicon Valley and send it to taylor-3me@tudelft.nl, before February 18, 12:00 am.





Recent graduates

The following students have recently graduated from PME, congratulations to all!



Boran Jia, specialisation: MSD

Evaluation of a Fast Prototyping Method: Thermal Damage in Pulsed Laser Micromachining

Hari Mohanachandran, specialisation: SOM

Design of actively controlled heat exchangers using topology optimization

Ronald Spruit, specialisation: MNE

Optimized MEMS-based Nanoreactor for In-Situ Transmission Electron Microscopy Studies at High Temperature and Atmospheric Pressure

Ryan van Dommelen, specialisation: MNE

Surface Self-Assembled Colloidal Crystals for the use in Pattern Replication by Hot Embossing

Heleen Payens, specialisation: MNE

Non-enzymatic electrochemical sensing of glucose with nano-structured and functionalised diamond electrodes

B.H.L. Overes, specialisation: MNE

Nanoimprint Lithography using Diamond coated Micro-Structured Silicon Molds

Stijn Koppen, specialisation: SOM

Topology optimization of optomechanical systems

Jelle Snieder, specialisation: MSD

Development of an Air-Based Contactless Transport Demonstrator

Elena De Lazzari, specialisation: SFM

A NURBS-enhanced Discontinuity-Enriched Finite Element Method





Marije Barel, specialisation: MSD
Towards static balancing of compliant mechanical micro motion amplifiers

T.W.A. Blad, specialisation: MSD
Vibration Energy Harvesting from Human Motion

Simon van Hemert, specialisation: DMN
Extracting elastic properties of graphene nanodrums using a multi-modal approach in Molecular Dynamics

Jeroen Speet, specialisation: SOM
Parametric reduced order modeling of structural models by manifold interpolation techniques Application on a jacket foundation of an offshore wind turbine

Yuze Yang, specialisation: MSD
Sensor Calibrations with the Improved Picodrift Interferometer

Jordan Karapanagiotis, specialisation: MSD
Hydraulic catheter device for treating chronic total occlusion

Olivier Potma, specialisation: MSD
Designs for rotary shaft fluid seals in an aqueous environment using ferrofluids

Arun Palanikumar, specialisation: MSD
High Bandwidth Stable Motion Control of Fourth and Higher Order Systems

Thomas Gribnau, specialisation: DMN
Nonlinear dynamics for estimating the tip size in atomic force microscopy

Bram van den Brink, specialisation: DMN
Design of a Setup for Modal Testing of Micro-Cantilevers Immersed in Liquid

Lili Maxime Hauzer, specialisation: DMN
Mass and stiffness measurement using a multi-modal analysis

Nils Velders, specialisation: MSD
An innovative concept for airpot based passive vibration isolation

Kaz Vermeer, specialisation: MSD
Kinematic Synthesis using Reinforcement Learning

Stefan Brilstra, specialisation: MSD
Design of a Snap Acting Pneumatic Relay to Reduce Air Loss in a Wafer Floating Air Film Conveyor





Activities

Brunel solicitation training

The first real event was organized on the 15th of September, and this is the Brunel application training and this was the perfect opportunity to give your application skills a boost! Unfortunately this training was only given in Dutch, but still there were a lot of people who all just fitted into the PME meeting room.

The training was given by Tessa Verkade and Laura Nieuwenburg, two employees of Brunel who are specialized in these kind of trainings. During this training, tips were given on how to behave and what to say during a job interview, but also some advice was given on how to set up a professional LinkedIn page or CV. The question was; what should your online and offline profile display, and how do companies see your profile?

To obtain the best results from this training, Tessa and Laura looked up everyone's LinkedIn profile beforehand to see who they were dealing with and what to look for. A rather difficult first exercise that was given during the training was to point out several strong and weak points about yourself. For many students this was one of the first times they started thinking about that, because they were now forced to do it. Knowing your strong and weak points could really help out during a job interview, because this could help with 'selling' yourself to the company but also showing your honesty to the company by telling your weak points. Be honest, nobody likes a show-off. After everybody had some time to think about their strengths and weaknesses and also presented them to the group, some were picked out and explained by the person who mentioned it. By giving this explanation fellow students saw that someone's his strength can be someone else his weakness, which sometimes was surprising.

The last exercise of the training was trying to make an elevator pitch about selling yourself to the company, showing them that you're the perfect candidate for the job. There was the possibility to do your pitch for the whole group, but of course at first nobody really wanted to do it. But after the first one took the opportunity, our very own secretary, a few more followed after his amazing pitch. **Marc de Graaf**





Activities

DEMCON LUNCH LECTURE

The first lunch lecture of this college year was given by DEMCON on the 22th of September.

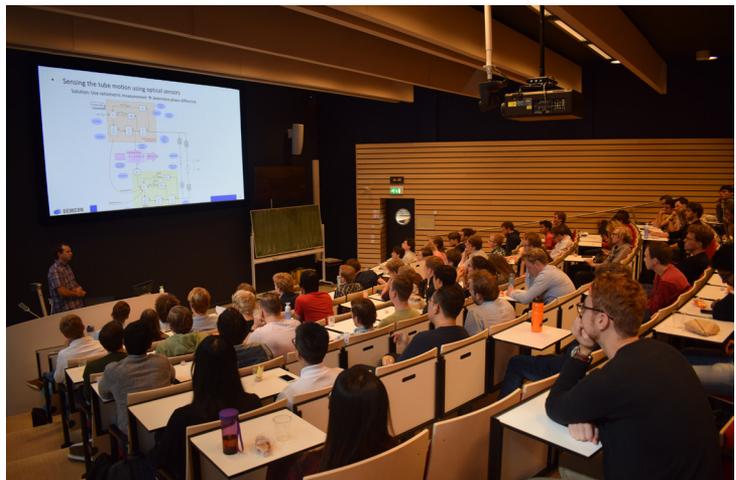
With an almost full lecture hall and while enjoying our lunch provided by the Taylor board, we listened to two representatives of DEMCON. At the start they made the connection between DEMCON and the High-Tech Engineering and Opto-Mechatronics master tracks, because they are a high-end technology supplier of products and systems, with as focus areas high-tech, medical, optomechatronic and industrial systems.

Also two very interesting projects were discussed: a mass-flow meter named the mini CORI-FLOW and a CT compatible needle positioning system for removing tumors. With these examples, DEMCON really showed what we, as master students, can do and become when working or doing a thesis there.

All in all did we have an interesting, informative and delicious lunch lecture!



Marc Gritter





Activities

HUISMAN LUNCH LECTURE

The second lunch lecture of this academic year was given by Henk Weterings from Huisman, one of the biggest offshore companies in the Netherlands. Despite the fact that the previous lunch lecture was only 3 days ago, it was nice to see yet again a large group of enthusiastic PME students.

Huisman is a worldwide operating company founded in 1929. They have a lot of experience in designing and manufacturing of heavy construction equipment. Some of the products they make are Cranes, pipelay and drilling equipment.

During the presentation Henk told about the world's largest bearing, which was made by Huisman at one of their production facilities in China. The bearing measures a stunning 30 meters in diameters and are meant for the world's largest Tub Cranes. These cranes will be able to carry 10,000 metric tonnes and will be installed on Heerema's new semi-submersible crane vessel called Sleipnir.

In addition to this, Huisman is focusing not only on offshore applications, but also on 'Special Projects'. The bearings they build can be used in many other areas. For instance Henk told us that Huisman is also involved in the design and manufacturing of a big Ferris wheel, which of course also incorporates a very big bearing. This shows that Huisman is capable of dealing with very versatile projects.

Richard Pleeing





Activities

PM BEARINGS: Company visit

The hour is 07.45 on a stormy Thursday morning. I look at my suit that is ruined from the 3-minute bike ride as I meet up with the fellow PME students for our trip to Dedemsvaart, not to walk with Alpacas but to visit PM Bearings. 30 minutes later the bus driver shows up and we start our 2,5-hour journey towards the east.

The strong winds caused the bus driver to swerve all over the road, and other cars to collide, delaying the trip by a fair 30 minutes. Around 11.00-11.30 we arrive at the amazing premise that is the head quarter of PM Bearings located at Dedemsvaart.

We are warmly welcomed through a cup of coffee and some Dutch delicacies and briefed through the day. Since the building interior was under construction we were allowed into the office area, but there was not much to see, and we soon continued to the interesting part: the factory hall.





Activities

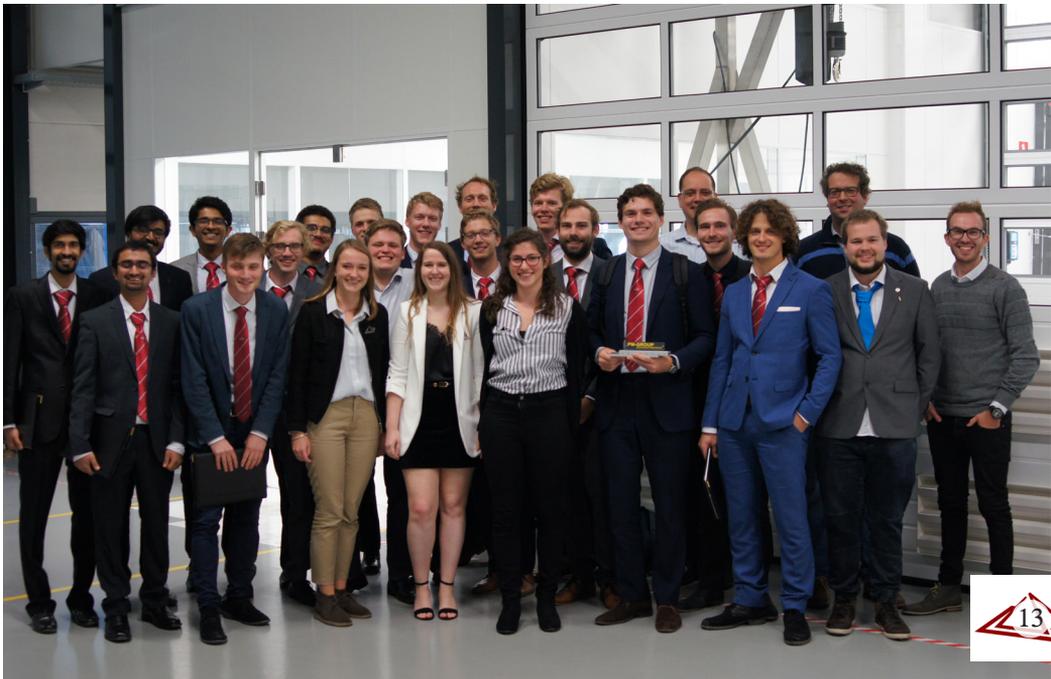
The latter department consisted of two Delft alumni who gladly joined and led the tour. In two groups we were walked through the extensive building, with corridors big enough for trucks to literally drive through. Our first stop was at PM's newest purchase: A world record holding CNC milling machine that was bought to mill rocket ship nose cones and was therefore of unbelievable dimensions, among which a mass of 80 metric tonnes.

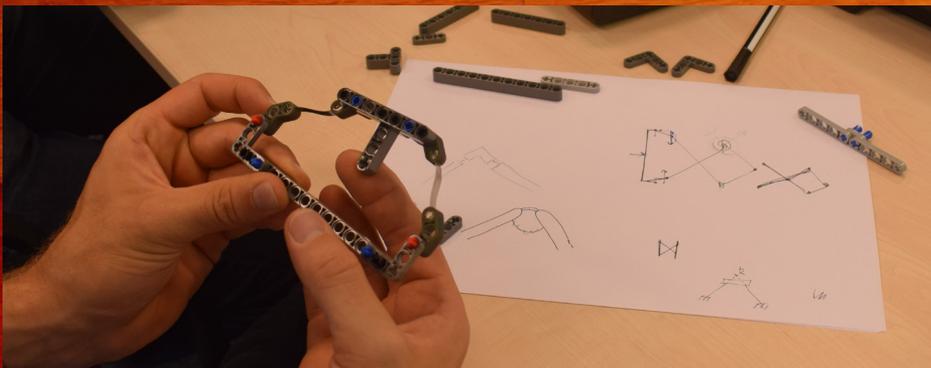
We continued through the production process of the linear bearings which furthermore consisted of hardening, straitening and grinding for an accuracy of only a few micrometers on several dimensions. The clean room, specifically designed for their current project (a microchip 3D-scanner) was of ISO class 7 which is apparently very clean, as was the overall impression of the factory to me, by the way. The clean room concluded the factory tour and it was time for lunch.

After the refreshing set of sandwiches, a case was prepared where we had to come up with a solution to their pretension struggle in groups of 5. A lot of creativity was brought into the battle, but the best group contained a true PM bearings employee: Ad Huisjes. Coincidence? Probably. The take-home trophy was, unsurprisingly, a linear bearing with the company name on a plate, currently exhibited in the Taylor office.

After this interesting case study, it was time for us to head back to Delft to make it in time for dinner. To kill time on our way back we played some 30 seconds, which is probably the worst board game to play on a bus. We couldn't care less, what a great day we had at PM Bearings!

Maurits van den Hurk







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Activities

AEGIR LUNCH LECTURE

Friday the 13th is considered an unlucky day in Western superstition. It occurs when the 13th day of the month in the Gregorian calendar falls on a Friday, which happens at least once every year but can occur up to three times in the same year. In 2017, it occurred twice, on January 13 and October 13.

One of these days, October 13, was chosen by Taylor to be a perfect day for a lunch lecture, the lunch lecture given by Ruud Muis one of the founders of AEGIR-Marine. AEGIR is a make independent service provider, specialized in stern seals. They offer high quality service, for any type and make of stern seal. Although it is a rather small company of just more than 100 employees with their headquarters in the Netherlands, they also have offices in Nambia, Hampton, Singapore and Shanghai.

Normally companies come and talk specifically about their recent projects or the technologies they develop at this moment. Ruud decided not to, and instead he wanted to tell his story about the arising of his company. He started by telling the students that you have to find out yourself if you're capable of being an entrepreneur. The time he was still young, he already said he wanted to go explore the sea and that's what he did after his study. During the time on sea he learned a lot but decided not to stay with the sea, and started working for different companies in the Netherlands. The last company he worked for was a small manufacturer of compressors for the marine industry. Working for this company gave the last push towards his entrepreneurship, and in November 2000 AEGIR-Marine arose in his attic. Ruud told the students about the philosophy the company build on, that the company strives for long-term relationships with everybody connected to the company. This you cannot do without acting and doing business with integrity. Doing this successfully they also live by the following motto: "Don't promise anything you cannot live up to, but deliver more than you have promised". Ruud also talked about the importance of doing business openly, because this will have an influence on their competition. Competition keeps them focused and is good for their customers.

At last the presentation was concluded with the fact that AEGIR sponsors the Netherlands women's beach volleyball team. Maybe now you're thinking: "Why would a service provider of stern seals sponsor a beach volleyball team?". There could be different reasons; both they are connected to the sea in some way, or AEGIR just wants get their name out there. But all the students that attended the lunch lecture also know that it gives pretty good pictures.

Marc de Graaf



Study abroad

“de Nationale DenkTank”

Not an adventure abroad this time, but my experience at the National ThinkTank (‘de Nationale DenkTank’) in Amsterdam.

After years of lectures, I decided to quit studying for a couple of months to do something entirely different. I was always interested in social issues and how we, technical people, can help to solve them. Therefore, I decided to apply for the National ThinkTank. One of the best decisions I have made.



The goal of the annual National ThinkTank foundation is to create a group of critical young people able to look at societal problems in order to influence decisions in a direction that will result in progress for Dutch society. An independent vision is presented, through analyses and innovative ideas. To achieve this goal, the foundation appoints an annual National ThinkTank, consisting of a multidisciplinary team of about twenty talented PhD or Master students and graduates. During a period of four months they work on visionary and practical solutions for a topical societal issue.





The societal issue of this year was the changing labour market, more specific the issue of job prospects. It has been shown that despite the flourishing economy, some groups still have lesser job prospects. Some of the groups we focused on were flex workers, youngsters with a disability and people whose job will change because of automation. The first month we focused on analysing the current situation. With my team we analysed the situation of flex workers. In the next months we worked on solutions for the different issues, in my case I worked on a new social security system.

During the past few months I had the chance to meet interesting and inspirational people from scientific, business, and governmental organizations. The ThinkThank makes it possible to develop yourself in a way you could never have done in your studies or experiences.



Furthermore, I have seen that the skills I learned during my studies, like analytical thinking, are really helpful to solve non-technical problems. And of course, working in such a diverse team has been an amazing experience.

In the next months I will still work on the new social security system and I will help to organise the next ThinkThank. The upcoming ThinkTank will be about the circular economy. If you are enthusiastic to be part of the ThinkTank, contact me!

Laura Dijkink





Activities

DENSO LUNCH LECTURE

Friday the 17th of November started of as a normal day: the PME students were going to their lectures and the Taylor board was preparing the Denso lunch lecture for that afternoon. But at around 10:30 that morning, the power went down in almost every building of the university, including 3ME. Despite the fact that there was no electricity, lectures were cancelled and the dean telling everyone to go home, a lot of our PME students still showed up for the lunch lecture. So many even that the Meeting Room, where this event took place, was completely filled.

When most students had their sandwich, John de la Pierre from Denso started of by telling everyone that although most students probably never heard of Denso, it is actually a huge company with a \$40.2 billion annual revenue. Denso is one of the key players when it comes to developing and producing parts for the automotive industry. Almost every major car manufacturer buys thermal, electrical or powertrain parts from them. John had brought Leo with him, a young Denso employee from Munich. Leo told the students about his job and how he got it. Together with a team of engineers, Leo worked on developing electrical compressors. He explained this process by showing it on a strategic timeline that Denso considers for their projects.

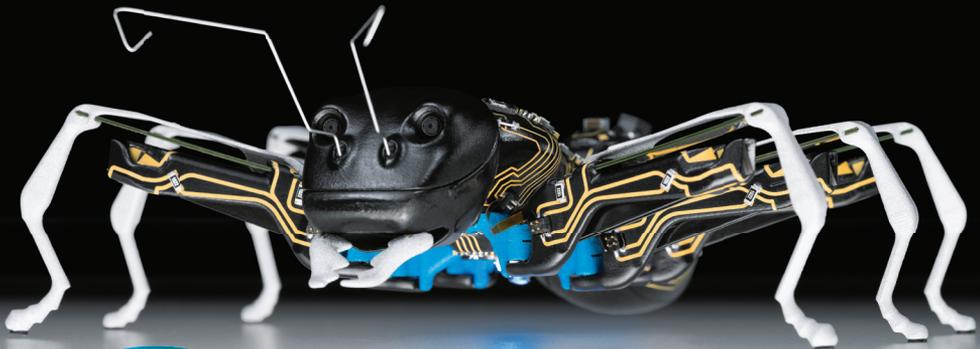
Because there was no electricity and the lecture had to be held in the Meeting Room, the whole event had a very informal feeling to it. Apparently this made the students feel very comfortable to ask many questions to John and Leo. So even though there was no power, the Denso lunch lecture was a great success.

Justin Smid



FESTO

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in een inspirerende omgeving?**





Activities

DENSO NETWORK BORREL

“A silent giant”

Most car manufacturers only produce their engine and body themselves, every other part present in the car should actually be stamped with “made by...”, as seen in the clothing industry. A company like Denso is a supplier of all kind of parts across the areas of thermal, powertrain control, electrics and electronics. Denso is active in 38 countries worldwide and has 152.000 employees across all aspects of the automotive business. It can certainly be seen as a giant.

The network drinks with Denso started of casually late but was worthwhile waiting for. A short presentation was given to introduce the company to everyone present. After the present employees told about their function and past experience within or outside the company, the networking part was initiated. Everyone had the chance to talk about different aspects of the company and the possibilities for internships. As the goal of Denso was to let people and especially students know about the company, they did it excellent by doing it this way. It was easy and interesting to talk with the employees at a more personal level, whereby more direct questions can be asked. Add to that a more complete picture of the company and a clear production philosophy and you have a successful network drink.

Maurice Valentijn





Activities

COMSOL WORKSHOP

After the many activities Taylor already organized for the students, it was time for a hands-on session, so a workshop was planned on Tuesday the 28th of November. As you know COMSOL Multiphysics is software that is frequently used in both industry and the academic world. The software however, can be challenging to work with since it can be used for many difficult problems that can include coupling of different phenomena. That is why a workshop for COMSOL was chosen. Sander, who works at the support centre for the entire Benelux came to 3mE to teach the PME students about the modelling of the physics of fluid flow and chemical species transport.

At the end of the session these two problems were also coupled, making a complete model of two fluids flowing through an H-shaped tube. The workshop was divided into three parts, starting with an easy example in Microsoft Excel and finishing with the more difficult problem mentioned before. The room was filled with enthusiastic students who were eager to improve their COMSOL skills and while they were listening to the presentation, they were enjoying the nice meal that was provided. It can be concluded that the workshop was a success, and we hope that the new skills will help the students and the department to continue to deliver nice projects and papers.

Gijs van der Velden





Activities

PRODRIVE EXCURSION

This was yet another Taylor excursion to Eindhoven located in the southern part of the Netherlands. We supposedly were to meet somewhere near the TU Delft Aula at 9, and although the bus was perfectly one time, I was still missing! Nevertheless, after everybody arrived we all got on the bus and off we went!

Once arriving at Prodrive, we received a warm welcome and were led to a conference room where we had some coffee while listening to two presentations. The first topic was about designing a machine that could precisely place powerful magnets near each other. The second was about a PhD project looking into the biomechanics of the eyes for people who had bad vision. Both topics were extremely interesting and we as a group had a lot of questions about them! We could clearly see what these guys accomplished in their previous work and what type of projects they are currently pursuing at Prodrive. They were very enthusiastic about working at this company, especially the equal working environment, trusting each other, being responsible and seeing projects through from design to the actual working product were their main motivational drivers.

Before we knew it, the staff had prepared a very nice lunch for us. We were also provided with the opportunity to ask some of the employees some extra questions. After lunch, we were split into two groups in order to take a tour around Prodrive. The tour was simply amazing, they had so many in-house features it didn't stop. Floor after floor the amount of high-tech just kept piling up until at some point we couldn't keep track anymore of what was going on. We all got the impression that Prodrive is a very modern company, expanding at an unprecedented rate and most certainly is one of the leading companies in this field. That being said, the tour was finished around 14:30 allowing us to have more than enough time to take some nice pictures while giving and receiving business cards from Prodrive. We got back into the bus, luckily just beating traffic, where we played a fun game of 30 seconds to finish of the day!

Thomas Soek





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Games: Atomic chess puzzle

Win amazing prices!

1. The normal chess rules are valid, with the following extensions:
2. Whenever a piece is captured, an explosion occurs on the regarding field.

The explosion destroys

1. the capturing piece
 2. the captured piece
 3. all pieces on the immediate horizontal, vertical and diagonal neighbour fields, except pawns. Destroyed pieces are removed from the board.
3. A game is won by checkmate or causing explosion of the opponents king by an indirect hit (see rule #2). In most cases the server will recognize a direct atomic-checkmate before the king is actually captured.
 4. Moves causing own king's explosion are not allowed.

Tip for the 3rd game: The king is not checked when the other king is on a neighbour field, because if the king is taken, they would both explode. Therefore the white king is safe on the current field.

Easy: White to move (Win in 2 moves)



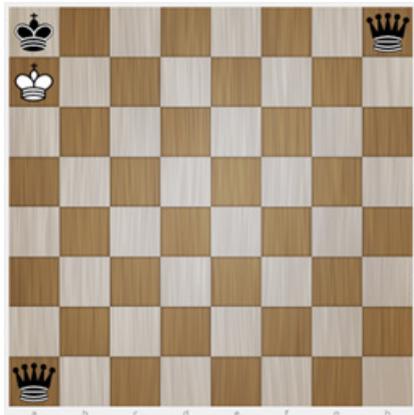


Games: Atomic chess puzzle

Intermediate: White to move (Win in 3 moves)



Difficult: White to move (Win in 4 moves)



Send your answers to Gijs van der Velden, your highness raffles a great prize!! ;)





Taylor presents

LUSTRUM CELEBRATION

Date: March 9 Diner: 18:00 – 20:00 Party: 20:00 - 24:00

Location: Art's Centre; Rotterdamseweg 205, 2629 HD Delft





Taylor Lustrum Event

On the 3rd of December 2017 Stichting Dispuut Taylor, has celebrated its twenty-fifth dies natalis. Since 1992, Dispuut Taylor is the student association of what is now the department of Precision and Microsystems Engineering at the Delft University of Technology. Among its core activities are the organization of events such as lunch lectures, excursions and drinks, initiating and maintaining relations with industry partners and contributing to a close community of students and staff alike.

To properly celebrate this fifth lustrum, we would like to announce the following events that will partake on the 9th of March. To start off an evening of celebrations we have arranged an exclusive dinner at the Art's Centre in Delft starting at 17:30. At 20:00, the festivities will commence with a welcome drink. Throughout the evening we will celebrate this special event with drinks and light refreshments. Moreover, there will be live music and the opportunity to dance. The celebrations will last until midnight at which we will end the party with some fireworks. The dress code for the evening will be White Tie and Cocktail.

Tickets are available in two options: Party-only tickets are €5 and offer admission for one person to the party which includes drinks and refreshments. The combi tickets are priced at €25 and offer an exclusive dinner on top of the party ticket. Please note that a limited number of 170 tickets are available for this event with a maximum of 70 combi tickets. All tickets can be purchased at the website:
www.dispuuttaylor.nl/lustrum.

Naturally, all of our students, PhD's, staff and relations are welcome to this event, but we would also like to encourage you to bring your partner and/or a date to share in the festivities. We are looking forward to celebrate this event together with you!





Get involved

Quotes

We would love to receive funny, motivational, wise or other quotes from our PME staff, students and PhD'ers to make a nice section with quotes in the Vision. Please send them to us together with a little bit of context.

Vision

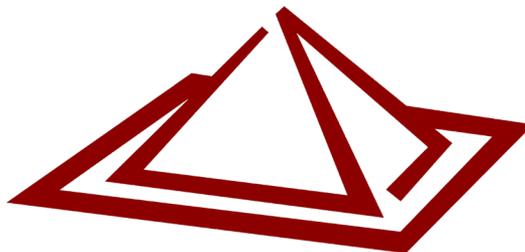
We are always looking for new stories for the Vision which is why we would like to invite you to send your story. This can range from articles or your PhD work to internship experiences. Do not hesitate to contact us and who knows you might be in the next Vision!

Taylor

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

You can contact us at:
Taylor-3me@tudelft.nl

Check out the website for more information!
www.dispuuttaylor.nl



The PME Department 2017-2018



