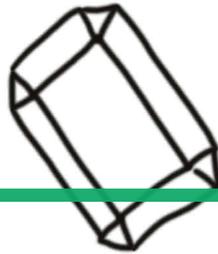
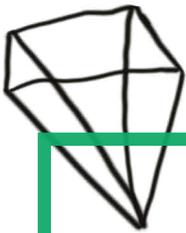
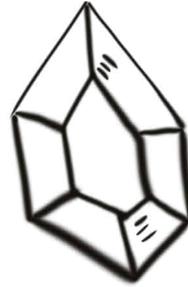
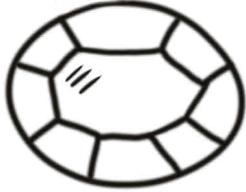


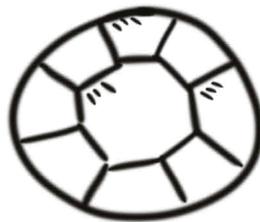
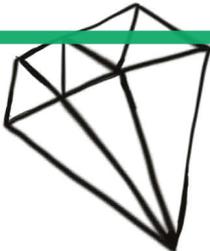
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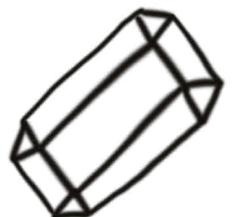


UPREMUM

VOL 55 NO 0



THE
EMERALD
EDITION





EDITORIAL

Welcome to the first volume of the 55th year of the *Supremum* magazine! As you might have noticed around *GEWIS*, this year is all about celebrating our 11th lustrum as a committee. This is the first special edition of the year, all in the theme of "Emerald".

EDITOR IN CHIEF Leon Vreling

Next to being a beautiful *dark green* gemstone, emeralds are also used to symbolise many different things. The emerald is traditionally the birthstone for the month May, and the Emerald City is the goal for Dorothy to travel to in *The Wonderful Wizard of Oz* (which for the eager readers was the overarching theme of last year). Most notably for this year, the emerald symbolizes the 55th wedding anniversary of a couple.

As you might have also noticed, there is a new picture shown next to this article. Anne already announced last edition that she will be leaving the committee, and therefore I am the new Editor in Chief. Next to this new face and the cover looking different than before, you can still expect to find your favourite content that you are used to within the magazine.

In this edition, you can read all about different interpretations of this gemstone, as well as other people that, like myself, have started doing something new this year, as for example the new board or the first-year students that joined our association this year.

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CHAIR'S NOTE

Here it is, the first Chair's note written by the chair of the 41st board. I am delighted that this year the eleventh lustrum of Supremum is celebrated and that this is represented in an Emerald edition. It's a pity that the bright and beautiful color that emerald represents cannot be written about by the chair of the 40th board. Though in my function as Praeses of GEHACK, I do admire the neon-green color, especially while writing this piece, looking back at a successful programming contest for the Benelux. Nonetheless, emerald has a bigger meaning than only the color it represents.

TEXT Wietske de Bondt

Since writing my previous piece for the Supremum, a piece for our introduction as the candidate board, quite some things have changed. First and foremost, I have become a board member. Realizing we are already 4 months into our board year is a weird thought. It shows you how fast time can go. For those of you who don't know me, I am Wietske de Bondt, an enthusiastic Mathematics & Computer Science bachelor student who is now leading GEWIS for the rest of the academic year. Next to chairing GEWIS I am also a member of Ichthus, the christian student association here in Eindhoven. One of the key values which I have learned being a christian and try to apply in the rest of my life is to 'love your neighbor as yourself'. Searching for what makes a person valuable helps in achieving this value. If everyone tried to strive for this, I think the world would become a better place in the end.

With one-third of our board year already having passed, it is good to reflect on our view of the association and board policy. One thing that came forward in this policy is transparency. As a board, we would like to be as transparent as possible to the rest of the association. With our recently cleaned glass-window in front of the board room, this literally helps. However, also don't be afraid to come to the board and ask questions or reasoning on certain decisions. Being able to answer these questions is part of the transparency we aspire to.

Two other cornerstones in our policy are sustainability and health. Similar to how emerald is a bright green stone, we envision GEWIS as an even brighter and greener place than it is now. Firstly, in the sense that we have a good 'green' impact on the environment. Think for example about the single-use cups which we strive to remove fully in our board year. You can help to do so by taking a mug out of the cupboard for your coffee/tea and putting it on the dishes cart. Making GEWIS a brighter place starts by making our members shine bright. A good physical, as well as mental health of our members is key to this.

“ Be like an emerald; value each other, be transparent about your intentions and shine bright to the rest of your environment, literally and figuratively ”

This concludes my article about emerald. I hope you have also discovered the bigger meaning that emerald may represent, or at least what it represents in my current life.

EDUCATION FIRST

While our freshmen are just getting to grips with their current bachelor, a new bachelor is being prepared for the next generation! In this article, we are taking a close look at the bachelor college 1.0 and in particular discussing why a change was needed. Next time we will discuss the content of the next bachelor college!

TEXT Bartjan Henkemans

What is the bachelor college?

Some students who are active within co-determination bodies (like the program committees) are more than familiar with the bachelor college. Most students, however, do not have a clue what the bachelor college is. Yet, all bachelor students who studied here from 2010 onwards have made use of the bachelor college. The most obvious moment in your educational career when you made use of the bachelor college 1.0 was in your first year when you took courses like Calculus and Applied Natural Sciences. USE learning lines & Professional Skills (PRV) are other things which were introduced with the bachelor college.

Why was it introduced?

The bachelor college was introduced in 2010 to educate future-proof engineers who can operate effectively in multi-disciplinary teams. Part of that was giving all engineers at the university a common engineering language. The most obvious place where this was implemented was in the bachelor college courses like Calculus and Engineering Design.

The bachelor college also had the goal of increasing the student intake and broadening the appeal of engineering degrees by focusing on the societal aspects of engineering by introducing USE learning lines. In particular, the university hoped that it could attract more female and international engineers-to-be.

Did the bachelor college 1.0 work?

Of course, that is dependent on who you are asking. We all know someone who is taking Calculus for the 8th time who would dearly like for this course not to

exist. Ignoring those outliers, the university was also wondering about the effectiveness of its bachelor college. That is why around 2020 the university asked an external auditing bureau for an evaluation. On the whole, the report said the bachelor college was a success, but named a few key weaknesses.

In particular, one of the weaknesses was the scale of the courses in the bachelor college and the coherence between courses. For instance, students did not feel there was a logical progression between the Calculus and Physics courses.

Pushback and approval

The bachelor college started a revision in 2020 with a couple of key focus points. Of course, their first ambition was elevating the risks mentioned above. Their first proposal intended on having four basic courses in quartiles one and two. The Joint Program Committee was not happy with this change; they felt that students could not explore their major in the first semester, and therefore the students would be unable to make an informed decision on whether they should continue or not after Q2 in their major. After rejecting the proposal the dean and their team went back to work and created the current proposal, which was accepted last year.

Next September, our freshmen will start in a new bachelor college. There is still a lot of work to do. In September the first year of the curriculums of our department was set in stone. With that done the courses have to be developed. But all of that is for the next edition of the Supremum!

GEWIS

GEWIS



INSERT COOL TITLE HERE THAT ISN'T DORKY AT ALL BUT IS ALSO TOTALLY DORKY

Ah, yes, the day that I knew that was coming is finally here. Having been a member of the Supremum committee myself, I knew that someday I would be asked to write an article about life as a PhD. I initially declined when I was still a member of the committee and had only just started my PhD, but now that I've been away a few years it feels like a good time to finally accept. The only question is, what specifically should I write about? I've seen plenty of similar articles come by in the past, so instead of writing the same stuff in a different way, I asked the committee what they would like to see. Here are their questions with my answers:

TEXT Mitchel Brunings

WHAT TOPIC ARE YOU STUDYING IN YOUR PHD?

Since the latest reorganization, I'm part of the Process Analytics cluster in the Data Science domain in our department. We, the Process Analytics cluster, study processes and processes are everywhere: hospitals, municipal offices, factories, universities, etc. As soon as things (**plural**) happen or people or machines do stuff, we may consider that a process that we can study.

The field of Process Analytics is big. As a subfield of Data Science, we do work involving data, like gathering, organizing, and visualizing. A particularly popular field in our area is Process Mining, where we use data from processes to find information about flows and bottlenecks in an effort to map and possibly improve the process. Modeling the process plays a big role in this both mathematically and visually. Mathematically we can calculate all kinds of things like how well the real-life process matches with how it was designed or make predictions on things like the next activity. Visually, one of our aims is for decision makers to understand what is going on in their process.

This last aspect has my focus. I specialize in local process models (or LPMs). As we study increasingly complex processes (or our data just becomes richer, or both), the process models end up more complex as

well, which is bad for humans: we cannot process such complex pictures. Using LPMs, we limit the part of the process that we show at a time to a more sensible chunk. Then, with the different parts of the process captured in different LPMs, we can relate the LPMs to each other to finally get an overview of the whole process again.

... At least, that's the idea. Unfortunately (or, maybe, fortunately, otherwise I wouldn't be here doing a PhD and writing about this), this is easier said than done.

There are many factors that determine whether an LPM is good or not, and sometimes those factors even contradict each other. Let alone the factors that determine whether a set of LPMs is good to represent the whole process.

WHAT KINDS OF MATHEMATICS OR COMPUTER SCIENCE DO YOU USE FOR THIS TOPIC?

For the modeling part, I rely heavily on the courses I took that involved modeling. In the bachelor, those were Business Information Systems (at the time, closest current related course is Foundations of Process Mining) and Logic and Set Theory. In the master I took a lot more specialized courses related to the Process Analytics area that are all useful now in some way or another. In particular Advanced Process Mining taught me a lot that I use daily.

I do more than pure theoretical work, though, and sometimes I need to develop a tool to test a theory. For that, I obviously rely on skills I learned and practiced in the various Programming courses and project courses. But I would still be waiting for results if it weren't for courses like Data Structures and (Advanced) Algorithms.

WHICH STEPS HAVE YOU ALREADY TAKEN IN YOUR PHD AND WHICH ONES WERE VERY INTERESTING AND WHICH ONES MORE OF A PAIN IN THE RECTUM AREA?

So far, doing a PhD seems a lot like doing a much larger master project. The first year or so, I spent mostly on identifying the research problem I would actually sink my teeth into. I was fortunate enough to do my master project in the same area, and I was therefore able to use the knowledge I gained there to get a better understanding of what I wanted to do.

Once I had identified the problem I would work on, it was time to start working on it. Step 1 for me meant showing my idea to the research world to convince them that it's relevant. I wrote a paper and submitted it to a workshop at a conference where it got accepted. Success! Unfortunately, this was around the start of the Corona pandemic, so I never got to attend the conference in person :(

“ Life is good. I get a lot of freedom in when, where, and on what I work, lots of time off (...), I get to go to conferences and meet a lot of interesting people in interesting places, and I have fantastic supervisors and colleagues that I get to see daily ”

For step 2 I wanted to work on finding a list of features that determine good (sets of) LPMs, but the workshop organizers had other plans: they invited me to extend the workshop paper into a journal paper. Of course this was an offer I couldn't refuse, so I collected better evidence and more formally explained why sets of LPMs are a good idea. This is also where I hit the lowest point of my PhD so far: I was so insecure of my work that a combination of (I hope) impostor syndrome and overworking myself brought me to tears. Completely unnecessary, by the way, as the editors were happy with the work. And when I read it myself again later, I was actually quite proud of it.

Anyway, now that that's done, I'm back to the original plan for step 2, but it will just have to be step 3. In the meantime I have had the pleasure of going to in-person conferences in Germany, Norway and Italy. We've hosted a conference here in Eindhoven. I've published a small paper about a tool I made during my masters, but hadn't published it yet. I've been on two program committees (those are the people that determine if submitted works are good enough to be published). And, as a PhD-TA, I've done a lot of teaching which I really enjoy.

All in all, when looking at the 'pain in the rectum area' parts, they are infrequent and rather small, especially in hindsight. Life is good. I get a lot of freedom in when, where, and on what I work, lots of time off (>7 weeks per year!), I get to go to conferences and meet a lot of interesting people in interesting places, and I have fantastic supervisors and colleagues that I get to see daily.

WHAT COULD YOUR RESEARCH BE USED FOR ONCE IT IS FINISHED?

Hahaha, don't tease me with the idea of research being 'finished'! There is always more to be done! I'd love to tell you about it, but I'm near the word limit for two pages when I said I'd only write one, so I'll leave this question for another time. Try asking me about it at a borrel (especially those in the first exam weeks as those are usually employee drinks where I get to drink for free :) or in my office (MF7.070)!



AC LUSTRUM

This is a special year for the ACTivity Committee as we get to celebrate our fifth lustrum! It feels special that our committee has been around since 1997, making us one of the oldest existing committees of GEWIS. We have spent the past 25 years organising fun ACTivities for GEWIS. Our first ACTivity was a pool tournament, an ACTivity that we still organise to this day (minus the tournament). We have had tons of fun ACTivities since, from board game nights pACKed with fun to a VR experience to remember.

TEXT Jeroen Nuijen - ACTivity Committee

I got to experience the AC since the start of our last lustrum. I have had more laughs, VLAAl!, and ACTivities than most AC members. Some things have changed since I first joined. In particular, the average time our members stay has increased. We used to be a committee where people stayed for only one or two years, in order to give the new generation an opportunity to experience our committee. However, we have had a period when we were not so successful at finding new members. At one point we had only five members, while we aim to have around ten people. As a result, some of our older members (myself included) decided to stay longer. At the time of writing we finally have ten members again, most of which were born this century. I hope that this is a sign that the AC will prosper for many lustra to come.

The duration of our meetings has increased as well. Not beCAuse of an increased amount of things to discuss, but beCAuse of the good atmosphere. When the breaks got shortened, all meetings needed to be slightly faster. However, we discovered that shorter meetings felt rushed to us. As a result, we started to take it slower again. Now our meetings last until somewhere between 13:30 and 14:00. That is, unless someone needs to go on time. In that CAse we make sure all relevant issues have been discussed.

Some things never change though. The AC meetings still have the same warm atmosphere, we still have VLAAl! for most of our meetings, and we still have our fun rituals. For example, we do something special for the first meeting of every month. This CAN be as simple as bringing some tea or as special as writing a 'Sinterklaasgedichtje' (a poem for a Dutch holiday) for eACh other. We added a couple of rituals as well, which are mostly related to the spelling of certain words. The most recent example is buck'thead (bucket hat). This is based on a misspelling on the poster for our lustrumborrel, which we fixed by changing the spelling retroACTively.

I have thoroughly enjoyed my time as an AC member. I am not certain how long I will stay, but I have full confidence in the new generation of the AC. I hope to see you all at the upcoming ACTivities, whether I will still be an AC member or not!



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Lotte L.: "Als Jelte bij ATHENA gaat hebben jullie wel een ATHENA muts."

Romy: "Ik vind het wel interessanter worden, hoe vaker ik dit vak doe."

Samuel: "Just forward the call"

Jasper: "I don't know how"

Gijs: "Just press Hold, Transfer directly to"

Jasper: "And then, what phone number?"

Samuel: "The GEWIS phone number"

Jasper: "What number is that?"

Samuel tegen Sushi: "Dus het is niet jouw schuld... ofja, het is wel jouw schuld, maar niet helemaal"

Jelte: "Ik ga dit even zonder geluid luisteren"

Maiko: "Doe die ene waar ik jou van achteren pak!"

Isabella: "Ik heb Educational FOMO"

Loek: "Bestuur, ik kan niet gamen"

Wietske: "Het is gewoon heel klein, maar ik kan wel dingen"

Random gast op stap op een discotoilet in Hengelo (Gld.) tijdens BAC-wiekent tegen Bouke: "Sow, jij hebt veel borsthaar"

Merel: "dat is echt wel waar nazi's om bekend stonden"

Lucy: "dat ze zichzelf haten?"

Merel: "nee, deo in een tas doen"

Semi: "Hoe heet zo'n ding als je achter een bureau zit?"

3 seconde later

Semi: "een bureaustoel!"

Daan tegen Bouke: "Ben je naar de kapper geweest?"

Bouke heeft een pet op

Bouke: "Ik heb teveel ding in vaatwassers zien koken"

Lotte L.: "Kersen vind ik lekkerder dan perzikken"

Harmen: "Kennen jullie Rik Kaasschieter?"

Alex: "Nee heb ik zelf nooit last van... uh les van gehad."

Jeroen: "Ik ben genaaid door een BOOM"

Samuel zit bij Hizmet.

Baby maakt geluid.

Samuel: "Houd je bek!"

Viktor: "Een geit is toch een mannenlijke schaaap?"

Jeroen: "op een grote afstand kan ik geen hol onderschijden"

Robin: "Als we ooit kinderen krijgen doen we het samen."

Bartjan: "Je f'cking moeder, ik heb hem er net ingestoken."

Arnoud: "Hoeveel gaten heeft een broek?"

Martijn K: "Een broek is topologisch gezien een plak kaas met twee gaten. Dus twee."

Alex vd Plas: "Dan ben ik nog liever de stront, dan ben ik op z'n minst mezelf!"

Sander: "Als je steelt, steel dan van ouderen."

Sjaars over m-accounts: "Ik weet niet eens mijn eigen wachtwoord!"





EINDHOVEN MATHEMATICS IN THE 70S

The occasion of the 55th anniversary of Supremum makes me realize how long my relationship with the university is. I started my mathematics study in September 1977, at what was then called the "Technische Hogeschool Eindhoven" - just in case you might wonder what the letters THE stand for. This was only the twelfth year that a pure mathematical curriculum existed. Prior to 1965, mathematics was a specialization in each of the initial studies electrical engineering, mechanical engineering and chemistry.

TEXT Cor Hurkens

I still recall the first day of the introduction week. It was pouring with rain, and the railway tunnel near the soccer stadium was flooded. Welcomed at the THE by the rector we were challenged: "Look to your right and to your left. You will see at most one of them next year." Studying is a serious business.

The first year of mathematics was split in semesters of 14 weeks each. The focus of the study was on A&A, the core mathematics part, and E&M, the physics part. Algebra and Analysis was taught by Ackermans and van Lint, who were both great teachers. Electricity and Magnetism was taught by physicists, and was less popular. It involved a lot of differentiation and integration, in 3D. For practicing the mathematical skills we would have two full afternoons of exercises each week plus an interim test every two weeks.

Another part worth mentioning was the "modellen praktikum", introduced by Jacques Benders to prepare us for mathematical engineering. Every two weeks we would get a practical problem that had to be reformulated in proper mathematical terms, solved, described and reported upon. It was discussed in class and then in teams of two we would have to elaborate on it, taking care that our hand-written reports would be readable.

As first year students we stuck together a lot, played cards during lunch time, or spent it watching movies organized by Studium Generale. We also formed one of the many soccer teams in the Mathematics department. Only by the Studentenraad we got into contact with other students. We found out that there had been a study association "Sunya", but after the



last students had been in the board for two years in a row they had given up. To come to the rescue of the students, the mathematics department then founded the "Studenten Gemeenschap Wiskunde" that by definition consisted of all students. They appointed a chair, a secretary and a commissioner (sponsored by a student assistantship). The chair led the meetings of the Studentenraad (Student Council), to discuss teaching matters, the secretary did the correspondence between department and students, and the commissioner had to organize the rest: introduction, follow-up, excursions domestic and abroad, sports tournaments. In 1979 I signed up for the commissioner task, which was a lot of work. We had a dedicated room to meet: HG.8.79 (Now ATLAS).

In the years after Sunya stopped, there was chaos. Small groups of students organized themselves, starting with Wiskie, a rather politically left motivated, or engaged, group of students, among whom was Emiel van Berkum. To oppose this, a second group came into action and called itself Sherrie, and was definitely more conservative, with Frans Beenker among them. Swinging back to the middle there was Brendie, that organized weekly meetings in the AOR (student-bar in the bunker, near the mensa, opposite of the TH). Finally we had Wissewasje, with my intro-daddy Joris Stadhouders. We formed an alternative gang, worried about the environment and visiting the macrobiotic restaurant at the TH. Discussions between these groups can be found in old issues of Supremum.

" No internet, no LaTeX, no smart phones, no overhead projectors, no Mathematica ... "

A social club of students would regularly meet in the "Werkwinkel", in HG.6.96, where we would collect old mathematics exams, sort them out, have them reprinted and hand these out to all TH students in their preparation for the Mathematics 10, 20, 30, ... exams, which are now called Calculus. We would play



Leftmost person is Cor Hurkens

many rounds of Yahtzee, and after we started the exchange with Hungarian students from Budapest we would switch to Tarokk. We laid the foundations for GEWIS. Initially we exchanged the student assistantships for a proper funding, such that a group of 6 to 7 students could organize various activities, and once that worked it was made official, and GEWIS was founded.

It may be hard to imagine how we could do these things, have a good time and learn a lot using lecture notes typed by secretaries, stenciled supremums, a central telephone switchboard for external phone calls, teachers only using the black board, a student administration run by one person, Hennie van Keulen and where one would report illness to our canteen lady Mrs. Geerts.

No internet, no LaTeX, no smart phones, no overhead projectors, no Mathematica but learn all tricks by heart. No excursions outside Europe, and the ones in Europe by bus or train, changing currency at each and every border. I guess at that time, study time was chopped into much bigger pieces than it is now. We had more time to absorb the beautiful mathematics we were presented with. By reading real paper books, and by writing real text by hand, with pen and paper, we really got into it.



GESODJOE

On a Sunday, January 9th, six people got together for their first meeting. They had only one topic to discuss - destination. A lot of ideas were flowing around: USA, Canada, Japan, Korea, Singapore, Sweden, Norway, etc. Many arguments were made: "We still have to watch out for COVID", "What are the visa restrictions?", "Do we want to go that far?", "Would this country be interesting for leisure time?". And then, on January 20th, decision 3.2 was written down as follows: "The destination country of the study trip will be South Korea". Two months later, we had a list of 46 people interested in sharing this life experience with us!

TEXT Lora Šimić - GESODJOE

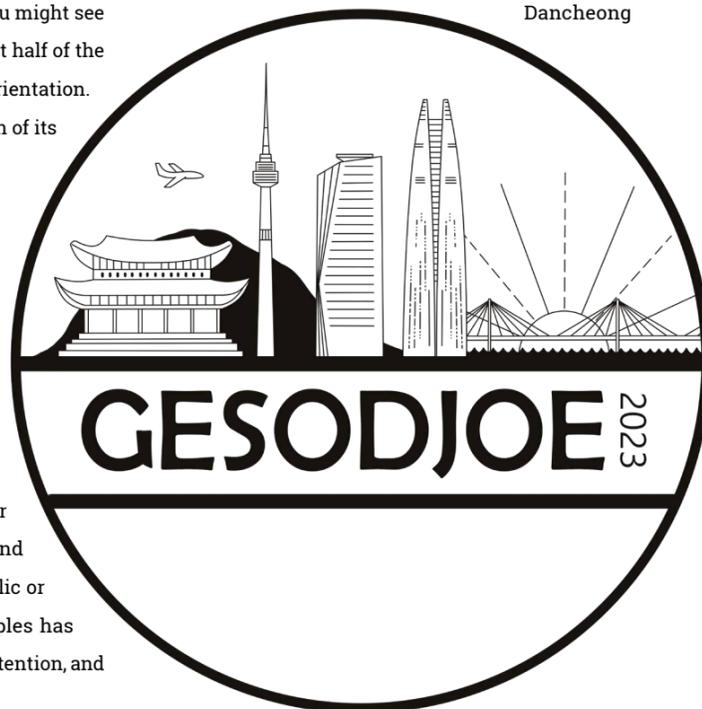
As some of you might know, SSG is a studytrip foundation that summons a committee to organize a bi-annual trip for GEWIS members filled with career and education development opportunities. This year's committee is called Gesodjoe and is organizing a study trip to South Korea in the summer of 2023. Our journey started at the beginning of 2022 and has a long way to go. With this article, we hope to shine some light on the country and its culture and picture why this destination is a gemstone.

When you do a Google search on "South Korea", among the beautifully lit-up skyline of Seoul, you might see a temple here and there. However, almost half of the population currently has no religious orientation. As it happens, South Korea still sees each of its 20,000 temples as a cultural treasure.

You may notice that the temples in South Korea all seem to have the same colors and patterns. The emerald green on the temple roofs appear to stand out the most. Luckily, we can explain this. Dancheong is a Korean traditional decorative coloring on buildings. Literally translated from Korean, it means "cinnabar and blue-green". Each color choice and pattern has a meaning, either for symbolic or practical purposes. The facade of temples has many layers of decoration, taking your attention, and

muddling your mind if you're looking at it for too long. That's why there is the saying: "To understand Dancheong you must learn it". As a computer scientist, I'm picturing the temples as a "place" of confusion, but with all the answers waiting to be decoded.

The first (wooden) temples of these designs were created back in the Three Kingdoms period (57BC to 668AD). In the Three Kingdoms era, Dancheong designs typically featured only two or three of the five colors that we have now and lacked the complicated patterns for which it is well-known to this day. However, Dancheong



wasn't introduced just as a means of beautifying structures, it was also used to both indicate societal rank and shield wooden structures from the elements.

What interested Koreans, from the point of the Three Kingdoms era, is the vibrancy of the color green. The colors really sparked during the Joseon Dynasty (1392-1910), when artists wanted to picture the complexity and beauty of the landscape. If we take the temple Beomeosa as an example, one might notice a dragon coiled around a bunch of orchids. This style of Dancheong is called Byeoljihwa and uses real and mythological creatures to convey stories. This style will attract the minds of tale lovers for the contrast and delicacy of the creatures.

These tales and stories about the breathtaking designs of the temples might set a high bar for what the participants of our study trip will expect. Nonetheless, we will have an amazing program planned for them.

Our journey will start in Seoul, the capital city. There, we are going to meet at Seoul National University,

where hopefully, we are going to hear a combined lecture of TU/e and Seoul's mathematics professors. Besides smaller company visits, GEWIS'ers are having the opportunity to enjoy sunny days in two beautiful parks called Nanjicheon and Haneul, and explore any of the 25 districts. The journey will then continue to Daejeon, Korea's fifth-largest city. This city is filled with a mixture of culture and the modern world that GEWIS'ers can experience, such as Gongsanseong Fort, Expo Bridge, the National Science Museum, or one of the small tech companies. Just an hour's travel to the southeast, we will shortly arrive in Daegu city. There we will entirely enjoy the culture and free time, and do a one-day trip to Pohang University of Science and Technology. For the last part of the trip, we want to visit the coastal cities in the south: Busan and Yeosu.

I hope that now, dear reader, you have some insight into how we plan to fully experience South Korea and its culture. We will leave the rest of the trip program a secret! Stay tuned for July 2023!



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Victor: "Schoonzus is toch de broer van je vriendin."

Roy: "Een CBC zonder Rink is als een bier zonder bar!"

Gijs: "Ik denk dat een poets uiteindelijk goedkoper is dan een vriendin."

Sanne: "Mijn Outlook is schizofreen!"

Tijdens 30 seconds

Romy: "Jij hebt het veel gedaan. Kippen doen het, vrouwen doen het, mannen doen het."

Susan: "Scharrelen"

Victor: "Moet het een 3D kubus worden?"

Chantal: "Jij bent echt een gezelligheidsdrinker."

Romy: "Ik ben echt een partylikker."

Chantal: "Zullen we?"

**Romy trekt haar shirt uit **

Romy: "Let's go"

**Anne kijkt bedenkelijk om zich heen **

Romy: "Zeg het maar als jullie willen slapen, dan gooi ik even mijn natte handdoek over de lamp heen"

Noa: "Zullen we zo het water in en dan droog worden?"

Ruben tegen Samuel: "Haal je eige pot!"

Samuel: "Het is lesbiënne, dankjewel"

Sanne vanuit de andere hoek van het bestuurshok: "Wat?"

Bouke op de naborrel: "Oh kut ik moet die differentiaalvergelijking nog maken"

Bartjan: "Ahhhh, ik ben depressief!" Ruben: "Hi, ik ben Ruben."

Romy: "Mijn waterschoenen zijn nog steeds nat, maar ergens snap ik dat wel want ze hebben heel de nacht in de regen gelegen."

Over met een trapbootje de Middelandse Zee oversteken

Romy: "Dan moeten we ons water rantsoeneren."

Chantal: "Rantsoeneren klinkt als rampeneren."

Sven: "Ja toen ik het dus net twee weken met uh... uhh..."

Mensen lachen

Sven: "ja is niet grappig maar is wel gebeurd. Uhh... uh..."

Alexandra: "Ja hoe heet ze ook al weer?"

Sven: "Uh... Chantal."

Romy: "Kijk uit hier liggen takken."

Anne: *gilt in paniek*

Samuel z'n oor zit verstoep.

Samuel: "Ik heb nu dus gewoon ingebouwde noise cancelling"

Lucas: "Ik heb wel van die gamer momenten"

Maiko: "Dat is echt een computer science uitspraak"

Alexandra: "Nu ben ik weer aan het janken, dankjewel Janne."

Kijkend naar de code van SudoSOS

Roy: "Wat is deze tyfuszooi?"

Alexandra: "Hee daar is een treinmeneer!"

Treinmeneer: "Dag allemaal!"

Sven: "Dag allemaal!"

Kari: "Hij is warm, hij is dik. Wat wil je nog meer?"

Hannah: "Ja de intro-bakkentrein is al lang bezig, maar ze zijn ondertussen al een nieuwe begonnen"

omdat ik langzaam was."

Rink: "Ja maar je was ook veel te sloom!"

Wietske: "what was your name?"

International says very difficult exotic name

Wietske: "Henk-Jan?"

Industrial engineering kiddo during the intro: "I'm just hanging out here to escape industrial engineering. I've got to get out before I start wearing my sweater on my shoulders."

Sandor: "Mijn elektrische tandenborstel stopt automatisch met poetsen, dus daar was ik vannacht op aan het wachten, en toen bedacht ik me dat ik niet mijn elektrische tandenborstel mee had genomen."

Houthuijs: "Gaan jullie niet mee zuipen bij GEWIS?"

Liselotte: We gaan eerst in de Dommel springen."

Houthuijs, I.V.V'er in hart en nieren: "Waarom? Je kunt gewoon gratis douchen bij het sportcentrum, hè!"

Alexandra to her kiddo: "how do I pronounce your last name?"

Kiddo: "I don't know either"

Lieke: "Auw ik ging keihard op een eikel zitten"

Arend: "I was the Twister slave."

Tessa: "Sinds ik m'n telefoon kapot hebt gemaakt, doet ie t niet meer"

Samuel: "8 knakworsten krijgen is wel voornamelijk"

Max: "Lekker met Mannin!"

Wouter: "Ja, Aal is de nieuwe Koen."

Wietske: "Ik heb even advies nodig. Zou ik em ook door mijn keel doen?"

Lucy: "Een keel kan nooit kwaad"

Victor start FaceTime gesprek

Victor: "Kan ik jouw hoofd van het beeld afkrijgen?"

Sanne die net vakantie heeft gehad na haar bestuursjaar en weer eens een vergadering moet openen: "Uuhm... Opening?"

Sanne in de UvA webwinkel: "Ik kan dit wel kopen, er staat ATHENA"

Leon, teleurgesteld: "Er staat gewoon Athenaeum"

Leon: "Weet iemand hoe dat nummer heet dat gaat du du du duh, du du du du du du du, du duh du duh Eindhoven"

Gabriel during the music section of a pubquiz: "This is Romanian and I will bet my life on it"

Robins Vader: "Maar bijna goed, is net kut"

Tygo: "The passoa is hitting on me"

"God built the world but the Dutch built the Netherlands"

Thijs: "Leven is optioneel"

Samuel doet een taakje van Lucy

Lucy: "is gewoon bestuurstaak!"

Willem van W: "Als ik thuis kots is er ook geen BHV'er"

Anonymous: "tbf als we nu zoenen, hebben we geen seks maar wel pizza"

Noa: "Hoezo niet, ik heb Jasper vaak genoeg gebruikt!"

Lieke J: "Dat doen we bij Bartjan op de bank of op mijn bed!"

Jelte tegen Robin: "Als ik morgen niet meer kan lopen heb je je werk goed gedaan."

Tessa: "Wat zijn je references?"

Jelte: "IK, ik ben mijn reference!"

YOU SHALL NOT PASSWORD!

Keeping dozens of accounts safe for all kinds of websites and services has become too complicated. Accounts require passwords that need to be more complex by the day. You start using a password manager because you can't remember all of them or worse, you use the same password everywhere. All these passwords end up in the service's databases, and if you're unlucky, on leaked password lists online. The question we should ask ourselves is: why do we still entrust the key to our accounts to a third party? Is there a way to protect our accounts without having to share our secrets?

TEXT Mark van der Linden - iO

WEB AUTHENTICATION

The FIDO Alliance is an association that has a clear goal: creating standards that help reduce the over-reliance the world has on passwords. With that in mind, the alliance created the FIDO protocol. This protocol allows users to authenticate with a FIDO-complaint device such as physical security keys. YubiKeys are a popular example of such devices. These keys could for example connect to your laptop via USB and make passwordless login to your Windows account possible. Together with the W3C, they have taken it a step further and introduced the FIDO2 protocol. This protocol consists of the Web Authentication (WebAuthn) specification and Client to Authenticator protocol (CTAP). WebAuthn provides an API for the browser to communicate with two types of authenticators: platform and roaming authenticators.

Platform authenticators leverage the capabilities of the device itself and provide a way for the user to safely prove their identity. This mostly comes down to biometrics like fingerprints or facial recognition. Roaming authenticators consists of physical hardware carried by the user that can communicate with the device via Bluetooth, NFC, or USB.

Having multiple options allows for flexibility for the user but also allows for broader support for different devices. For instance, not all devices support biometrics, but might have Bluetooth or a USB port to use a physical security key.



The specification is supported by Google, Mozilla, Microsoft and Apple, and because almost every device runs a browser, this method of authentication is widely available. On top of that, WebAuthn is based on public key cryptography. For every account on a website or service, a keypair is created. The private key stays on the device, and the public key is shared with the third party eliminating secret sharing completely! During the creation of the keypair, the website domain is also part of the parameters. This is a very important parameter because it binds the key to a specific domain which makes phishing attacks impossible.

REGISTRATION AND AUTHENTICATION

Registration is essential before a user can start using their authenticator. The server sends a challenge that the client must reply to in signed form, to mitigate replay attacks. Once the challenge is received, the user is prompted to choose the authenticator. This prompt is triggered by calling the designated method in the WebAuthn API. This API directly communicates with the browser to determine the available authenticators. Once an authenticator is chosen and the necessary steps have been taken by the user, like

a biometric check, a keypair is created. The private key is stored on the user's device and is used to reply to the challenge. The public key and signed challenge are sent to the server. The server validates the request, and stores the public key with the user's account.

Once the user has registered and starts the authentication process to initiate the login process, the server repeats the challenge. The WebAuthn API is invoked again by the browser, the user performs the biometric check once again and the challenge is signed with the private key on the device. The challenge is delivered to the server and is validated with the stored public key of the user.

BENEFITS AND CHALLENGES

Implementing WebAuthn has multiple advantages over passwords in terms of security. For one, the user can't decide to re-use a password or use a password that might have been leaked online. More importantly though, the server will never have any kind of credential stored except for the public key. This means that if the database is ever exposed, it would only reveal that public key which is of no use to anyone. In addition, while creating the keypair, it is linked to a specific domain which makes phishing attempts irrelevant.

Another benefit is that WebAuthn is a standardised protocol. With that, identity providers have already started supporting passwordless out of the box. Developers can configure this feature in identity providers like Auth0, Okta or Keycloak without having to write a single line of code. Standardisation also brings SDKs which makes it easier for developers to implement the protocol if they don't use an identity provider product.

There are, however, some things to consider when providing this functionality to your users. Like any other authentication option that revolves around another piece of hardware, like OTP, there is the matter of losing your device. You can use the user's email address as backup to register a new authenticator, or encourage users to register multiple authenticators.

“ Isn't it weird that we have to come up with a phrase and share it with a server to protect our account? ”

THE WAY FORWARD

Even though there is wide support for Web Authentication, it's not supported by all devices and some users still prefer passwords. This will take time and means we can't get rid of passwords all together (yet!). However, this shouldn't stop developers from giving users the choice.

You can also provide it as an option for a second factor authentication. The user can still register with a password, but with the added protection of the second factor. This way, the user gets to experience how easy the flow is and might think twice next time they have to provide a password for another account.

Want to know more about passwordless? Go to our tech hub at <https://techhub.iodigital.com/articles/you-shall-not-password> to learn more.



HUMGH

Ag es old were the tales told by my ancestors. Prophecies about a mysterious traveler who bestowed riches and wisdom upon anyone fortunate enough to meet him. His pockets were seemingly infinite, filled with minerals, nourishments, and tomes containing sacred knowledge. There were even tales of how he had protected entire villages single-handedly.

TEXT Lotte Lakeman

My family and I had grown up as farmers scraping by each month as we waited to harvest our crops. Countless nights I had laid down under the covers wishing we too would be fortunate enough to meet this mysterious man. Unbeknownst to my parents, I had kept a chest containing our finest supply in order to trade in case he ever arrived: pumpkins as bright orange as tropical clown fish and melons greener than the grass itself.

It was when the pine trees stood tall that my village was, to all appearances, fortunate enough to meet this mythical bearded man. I had spotted him standing on top of a hill watching over our village. He examined our entire village in great detail from up on that hill using his mysterious spy device. It was as he hastened his way down the slope nearly tripping over a berry bush, entering our village, that the alarm bell went off.

I could feel my hands shake from the fear as, along with this mysterious man, looters followed. Their crossbows pointed at us, with the power of dark magic on their side. Using his sword made of pure diamond, the traveler took on the looters and defeated each wave of them. As brave as he had been, the manpower of the looters and our unpreparedness meant the great battle was not without casualties.

"Hero of the Village", we had declared him. To thank this kind traveler for saving us, we welcomed him with discounts on our finest trades. All those who survived got their turn trading. Pumpkins were traded for emeralds which in turn were traded for the most



excellent armor our village knew. Thousands of cows must have been slaughtered for the amount of beef this traveler was offered. The number of emeralds was impossible to mine even if he had spent his entire life doing so. The trades were plenty, but at the end of all of them, we were all left with green gemstones and nothing more.

Had the legends been a lie or had our conception of richness been nothing more than greediness blinding us? Regardless, my village has not been the same since that faithful day when that blue-shirted man visited us. The people had to see family members, friends and neighbors perish in front of their very own eyes. He took back the nourishments he had traded us for; the stories of tomes containing knowledge had been fallacy as all the pages were empty. Emeralds. The only things we were left with were emeralds and nothing to trade them with.

IN THE SPOTLIGHT

Dear reader of the Supremum, you might have seen me walk around in "Het Dakterras" and started to wonder who I am. As a relatively new active member of GEWIS, I am happy to introduce myself to all of you: my name is Juul Peters, and I am a 4th year Computer Science and Engineering student.

TEXT Juul Peters

I come from a town in Limburg called Nederweert, which is mostly known for its McDonalds next to the highway. Even though nowadays it has been expanded with a casino, Subway, KFC, hotel, and even a Burger King, Nederweert is still the lovely little town it always has been.

During my entire childhood, I have played basketball together with my 2 older brothers. With all 3 of us being tall, this seemed like the most obvious choice. The pace and intensity of the game is something I have always loved, and the sound of shooting nothing but net still feels sensational. Unfortunately, however, both my knees disagreed with me playing basketball and forced me to "retire" from the sport.

After basketball, my interests in sports shifted more to skateboarding and jogging, which I have half successfully kept up. As you might be thinking, I love my knees. However, after some physiotherapy and hitting the gym, I can happily say that my knees are doing better than ever. Recently, I have been going to the gym more frequently, but spending time at GEWIS sometimes gets in the way of it.

Although I don't spend a lot of time on it currently, I have played my fair share of games in the past. Enough nights have been spent exploring the lands and scouring the seas together with my friends in a Discord call, or Skype in the good old days (I hope you can enjoy the Skype ringtone in your head for the rest of the day). My favourite game of all time is probably Hollow Knight, as the story and lore is magnificent, while the gameplay is still very challenging at times.

I only need 1 more achievement to have 100% Steam completion, but the last achievement will probably take an entire summer holiday; though I want to get it before the sequel is finally out.

As Nederweert is only 1 train station and a bus ride away from Eindhoven, I have spent my first almost three years studying from home and travelling back and forth. Even though I enjoyed living with my parents, I wanted to live in Eindhoven and enjoy student life now that it was possible again. After a relatively easy search I got a room in April, and it was time to become an active member somewhere. As Joris was an intro brother of mine, and we had kept in touch every now and then, he was able to introduce me to some GEWISsers who have now become good friends of mine.

"As you might be thinking, I love my knees"

As I am finishing up my bachelor's in my fourth year, I have plenty of spare time to spend on fun activities. That is why I have decided to join the Activity Committee, of which I have also become Treasurer, and GEHACK. While having a lot of fun at these committees, I am also learning a lot of valuable life lessons. Furthermore, I spend a lot of time at GEWIS in general, so feel free to come say hello!



*Infimum: A strange or funny quotation from a teacher, a student or faculty member.
Here you can find infima sent to the Supremum committee via inf.gewis.nl.*

Bouke B. "Als ik een vrouw was zou ik zo'n sletje zijn"

Sven: "Zit je nou tussen m'n benen Wietske?!"
Zuig geluiden van Wietske

Bolletje: "Het is raar dat dit spel niet gecanselled is, het enige wat je doet is grensoverschrijdend gedrag!"

Jeroen: "Ik probeerde te zuigen maar hij bleef maar komen."

Sunny: "Door welke minnares werd Samson aan de Filistijnen verraden?"
Kostek: Gert!

JW belt GEWIS, Daan neemt op

JW over de telefoon: "Er staan vier dozen bij de receptie"

Sam naast Daan: "Dat noem je nog steeds vrouwen"
Bartjan, Samuel & Daan lachen een beetje, Daan hoort JW ook lachen

Daan: "Heb je dat ook gehoord?"

JW: "Ja"

Lora: "My room is really not big enough for a tree"

Samuel during the GMM: "This is not a democracy"

Liselotte tegen Robin: "Waarom heb jij droge ballen?!"

Egor: "There is no todo-list, but if there was one, work would be on it"

Rustig in het bestuur's hok.

Samuel die je hoort vanuit de lounge: "GAAT HET??"

Lászlo R.: "Stop met palen!"

BJ, die hard nadenkt: "Uhhhhhh... Piemels!"

Anouk: "Voor sommige andere dingen kan ik wel mijn keel open zetten."

Samuel: "Jelte huilt niet, hij zuigt vocht op."

Noa: "Een viandel, dat is toch een frikandel maar dan gefrituurd?"

Noa: "Hij is niet elk jaar jarig"

Bartjan laat de trui van 41 zien met logo

Bartjan: "Kijk, het is de skyline van Eindhoven!"

Sanne: "Waarom staat de Erasmusbrug erop?"

Bartjan: "Omdat... huh?"

Jelte: "Het gaat niet om hoe ze eruitziet, maar het gaat om haar uiterlijk."

Wietske while we are just over halfway in October:

"We're nearing November, which is almost December, so it is close to Christmas!"

Bartjan en Pieter gaan samen camera spullen halen voor de BAPC 2022

Samuel: "Een blowjob en een Cock samen in een auto!"

Wesley: "Ik vraag me af en toe echt af hoe jij nog levensvatbaar bent..."

Bouke: "Zet eens sperma op!"

Samuel tegen Magnus: "Bezwangerde hij mijn kinderen maar."

tijdens bussen

Lászlo R.: "Ik wil een andere dealer."

Egor about his laptop: "It's whispering sweet nothings"

Sanne: "Ze is Buddy Vedder aan het zoenen, dus ze is sowieso een winnaar"

Rick: "Als mijn hoogste diploma een dapperheidsdiploma van het MMC is en ik verdien meer dan jou moet ie echt je levenskeuzes gaan heroverwegen."

Wim. W.(in de Hizzy): "ik wil niet meer bekend staan als een aardige gast"

Hans Sterk during a lecture Algorithmic Algebra: "If you know nothing to say at a party, then just start talking about 'Let's reduce modulo p. It's a very famous technique.'"

Tessa: "Ik heb niet gezoend met haar, ik heb alleen dr tong gelikt."

Sunny: "porque no estas hablando espanol conmigo?"

Kevin: "Je ne parle pas Français"

Kostek: "wij drinken meer bier dan I.V.V want zij drinken druivensap"

Ruben: "Oh, ik was met jou aan het bellen. Ja, ik was eigenlijk mijn telefoon aan het pakken om poep te scheppen."

Anne: "Karin Bloemen? Is zij van K3?"

Mart: "Ik heb gewoon een christelijke opvoeding gehad. Ik ben gedoopt, ik heb communisme gedaan, ..."

Lotte zet de bril van Nicky Gerritsen op

Lotte: "Oh wat erg!!"

Rudi: "Tuurlijk ben je vol als ik je pak!"

Anouk: "te is te"

Jelte: "Vocolade"

Noa B. die moet studeren: "Ik wil huismoeder worden zonder kinderen!"

Celine: "negen negen luchtballon"

Lotte L: "Ik wil een relatie alleen omdat ik dan een schoonvader heb."

Wouter: "Ik moet hem wel pijlen, anders steelt Max hem"

Samuel tijdens het bespreken van een begroting tijdens de BV

Samuel: "Kaas is toch redelijk vegan?"

Martijn: "waarom zit er een boot in het water?"

Lucas: "je mishandelt me, maar niet op de goeie manier"

Jan Bulthuis de derde: "Ik heb nog gin & tonic staan, zonder tonic"

Max: "Omhoog en dan in het gaatje"

Martijn: "Oooh er zijn twee gaatjes!"

Jasper: "Mijn drinken ruikt echt naar drank"

Samuel O. tegen Gijs de M.

Samuel O.: "Aaah nu heb je m'n AutoHotkey scripjtje verpest. Kut feut!"

Sven M. "Wat?? Ik heb helemaal niks gedaan?"

Jos: "Oh nee, we moeten shotten want het bier is bijna op."

Jelte tegen Tessa: "Ik wil jouw moeder best op de graaf zetten"

Jeroen: "Ik had op een gegeven moment een meeting request naar Jet gestuurd, ..., die ging over gerstrecycling."

Sanne: "ik ben vegan, maar ik doe wel aan seksen"



AAC
5TH LUSTRUM



FAITH, HOPE, LOVE

The theme of this *Supremum*'s edition is "Emerald". I admit, this is not a simple theme to incorporate in writing, which is why we as the *Supremum* committee had to think this theme through for a while. However, emerald is traditionally seen as the stone that symbolises 55 year anniversaries. As you might, or as an active GEWIS member should know, this year marks our 55th anniversary. Therefore, we could not let this idea be thrown away and with that I will try to accept the challenge of using emerald in my column.

TEXT Mathieu de Ridder

Emerald is a gemstone that is found almost all over the world. It is known for its beautiful emerald green colour, that (fun fact) vanishes when it is heated to more than 700 degrees Celsius. When doing some research on this stone, I found that it has occurred lots of times in history, even centuries or millennia ago. The first occurrence of emeralds in Western history comes from the great Aristotle. The Ancient Greeks named it σμάραγδος (smáragdos), after which the Romans somehow managed to form the word esmaralda from it. Speaking of the Romans, one well-known specimen of an emerald is a lens-shaped emerald that the Roman emperor Nero used to watch gladiator fights. Also the Bible mentions a lot of emeralds, as does Multatuli in his book "Max Havelaar, or the Coffee Auctions of the Dutch Trading Company" (in Dutch: "Max Havelaar, of De koffij-veilingen der Nederlandsche Handel-Maatschappij"). It is even a big part of the famous story of the Wizard of Oz! Another famous historical figure who liked emeralds was Cleopatra. In Egyptian history, emeralds were seen as a sacred symbol of fertility and immortality or rebirth. In alchemy it turns out to be a very useful stone as well: it is said to counteract poison. Maybe this is a property that could come in handy in the world we live in right now.

At the moment of writing, the news is spoiled with venom: today a two year old girl has died after a motorcyclist lost control of his bike and two days ago a ship got run over by another ship near Terschelling,

after which two people died and two others, among which a twelve year old boy, are still lost and presumed to have died. That same day an eleven year old boy did not return home and not even a week ago a ten year old disabled girl, Hebe, and her twenty-six year old attendant, Sanne, went missing. Two days later, the terrible news that they had died when the attendant's car had crashed into the water reached our country. All of this happened in a single week, and then I am not even speaking about the war that is currently raging in Ukraine, nor the situation in Iran, where a twenty-two year old girl died of police violence after wearing her hijab wrongly. With all this horrific news, the fact that the interest rate for our study loan is raised from 0 to 0.46 percent is simply negligible. However, as Mark Knopfler beautifully verbalised it in the song *Why Worry?* (1985) from Dire Straits:

“ There should be laughter after pain. There should be sunshine after rain. These things have always been the same ”

And indeed, not even a week after the news about Hebe and Sanne almost fifty thousand euro has been crowdfunded for Hebe's parents, in order to pay for the funeral and their loss of income during their first period of mourning. Moreover, with great relief, the boy who went missing was found a day after an Amber Alert had been sent out. Next to that, a decade of disputes between Israel and Turkey has ended in the re-establishment of all diplomatic relations between the two countries. On top of that, I discovered that the government gives 380 euros to everyone in the Netherlands that has an energy contract, which includes me!

“ Why worry? Everything is going to be alright ”

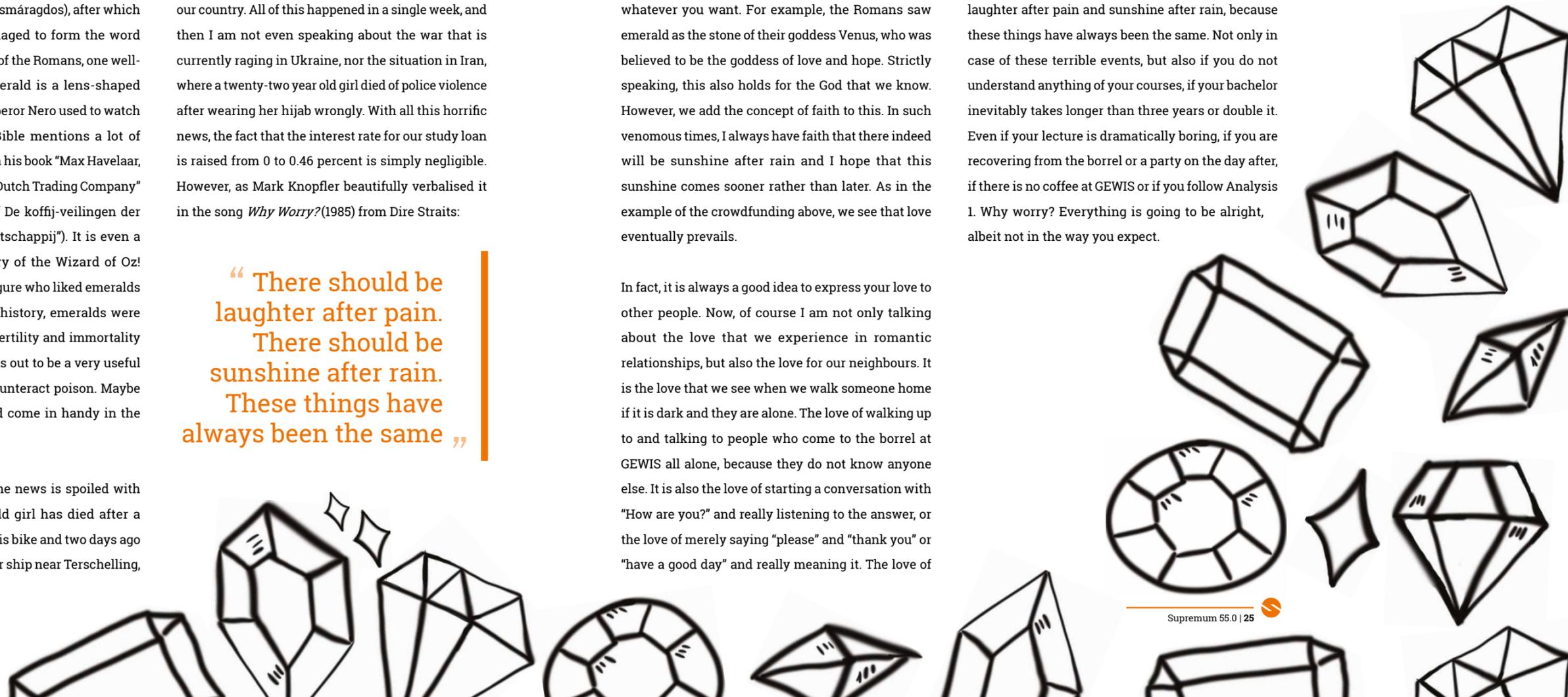
Me, myself and I believe that all this good news is the hand of God, but of course you are free to believe whatever you want. For example, the Romans saw emerald as the stone of their goddess Venus, who was believed to be the goddess of love and hope. Strictly speaking, this also holds for the God that we know. However, we add the concept of faith to this. In such venomous times, I always have faith that there indeed will be sunshine after rain and I hope that this sunshine comes sooner rather than later. As in the example of the crowdfunding above, we see that love eventually prevails.

In fact, it is always a good idea to express your love to other people. Now, of course I am not only talking about the love that we experience in romantic relationships, but also the love for our neighbours. It is the love that we see when we walk someone home if it is dark and they are alone. The love of walking up to and talking to people who come to the borrel at GEWIS all alone, because they do not know anyone else. It is also the love of starting a conversation with "How are you?" and really listening to the answer, or the love of merely saying "please" and "thank you" or "have a good day" and really meaning it. The love of

leaving behind the selfishness that is in every one of us and replacing it by putting others first. After all, what real harm does it do to buy someone that you do not know a beer at GEWIS. It is only seventy cents! How little is the time that you lose by saying "thank you" to someone and making the other feel a little happier.

What do you lose by writing on the homework the name of a group member that does not contribute much to it, because he is way behind schedule. He might as well finish it all at his own pace and still pass his course because of that! (Thanks for that, by the way, to the ones who did that for me.)

All in all, whether it is a beautiful, green, emerald gemstone that counteracts any poison, whether it is the God that most of Western society is either directly or indirectly based on, whether it is an ancient roman goddess or Mark Knopfler that performs his tremendous guitar-picking and conveys his thoughtful lyrics, you should never forget that there should be laughter after pain and sunshine after rain, because these things have always been the same. Not only in case of these terrible events, but also if you do not understand anything of your courses, if your bachelor inevitably takes longer than three years or double it. Even if your lecture is dramatically boring, if you are recovering from the borrel or a party on the day after, if there is no coffee at GEWIS or if you follow Analysis 1. Why worry? Everything is going to be alright, albeit not in the way you expect.





INTRO AND FLUP

The introduction week was one of the best weeks of this year: I learned a lot of new things about my study and about Eindhoven. During the introduction week we had a lot of fun activities scheduled. We went past many different places such as the different associations, the campus, the rowing association and of course Stratumseind which, for the uninitiated, is the pub street of Eindhoven. I had a great group to experience the intro week with; my intro parents were also a good contribution to my introduction to GEWIS.

TEXT Martijn van Dijk

INTRODUCTION WEEK

Throughout this week we also learned a lot of rules, like the shoulder rule, the golf balls rule (which was a big problem for me), and the one to remember best: the one beer is no beer rule.

Of course the introduction committee of GEWIS planned a lot of fun things to do during this introduction week. We played entertaining games and got to see most of the campus whilst solving riddles and doing our challenges for the crazy 88. These challenges ranged from climbing a B.O.O.M. (or tree) to learning to tie a tie from Daan.

This week had the theme "murder mystery": a murder was committed at the university and we needed to figure out who was the killer and what weapon they used. In a sense it was like Cluedo meets Among Us. To get these clues, we were supposed to do challenges and games. I got a lot of coins for "brassing" Daan's sword and for doing a pannekoek adtje which was pretty fun. These were just a couple of ways you could get coins.

At the end of almost every day we had cool parties we could attend. During these, you really got to see a different side to some of the people you might have seen that day. For example, the board of GEWIS seemed pretty organized and followed a strict schedule. But

when we arrived at the Feestfabriek on the first day, we got to see a different of them and we had a blast together.

This way we got to see some of the things we might be able to do in the course of our studies at the university. During one of the days we got to see all of the associations which gave us an introduction to who they were and what they did. This gave me great insight into which ones I would like to join. Following this, I have now joined the ESAC and, of course, GEWIS.



ANOTHER VIEW

Intro22 was one of the most stressful, tiring, anxiety-inducing but amazing experiences ever. As a person who has had trouble in social situations in the past, coming into the introduction week was a giant step.

It also being the second day of living on my own in a student house with 5 strangers certainly did not help. But I must admit, INTRO22 was the best thing that ever happened to me. It made me step out of my comfort zone and do things I'd never have done on my own: go to a party, talk with internationals, play weird but fun games and pull an all-nighter with people I've known for a solid 4 days. In general, it was just an amazing experience. The parties were perfect, the people were amazing, my intro-parents were more than amazing, and the food was... Okay, maybe the food wasn't that fantastic but you can't have it all right? After the week of parties, games, and introductions to Computer Science, GEWIS and the TU/e in general, I was exhausted, probably just like all other kiddos and parents, but ready for the start of my studies at TU/e.

I know for certain the intro week inspired me to live a little. It also inspired me to join GEWIS and become an active member there, also joining in on the FLUP and even becoming a member of a FYC (please follow us @fyc5050 thanks <3). I met some of my best friends during this time, and will always look back on it fondly. INTRO22 was perfect, well done INTRO22.

FLUP

The FLUP, like the introduction week, was a very fun time. We started with cycling to the campsite whilst going past different pubs and following a route that wasn't very optimal for our group; this might have been my fault but that is past us. Although getting to the campsite wasn't our first goal, we needed to do some things before we were shown the way to our campsite.



The weekend itself was filled with a lot of different things, but the most exciting part of the weekend was by far the cantus. During this cantus we had to drink a lot of beer and sing great songs like "Den Egelantier". The cantus also presented us with a lot of challenges, for example some people needed to do a "adtje gestrekt": to do this you need to stretch your arm and chug a beer while doing so - this of course is very difficult and messy. All in all the cantus was a nice experience to have, since it was my first one it was fun to learn the traditions.



Apart from being very drunk the entire weekend we also had some activities done by the fraternities of GEWIS. These activities were a nice way to get to know others from GEWIS whilst still having a lot of fun. I did not really do a lot of these activities since the hot tub was way too nice to leave: if you did, you would lose your spot.

After a long day of activities and having the cantus, we went to sleep in our tents and woke up with the most awesome songs, namely "kassa remix" and "tijd voor de grote schoonmaak". The days following seemed empty in comparison to this very fun weekend and I am definitely going next year.

To summarize, the Intro and the FLUP are both great activities and people should definitely join them. They leave you with great memories and friends throughout your studies and beyond.

MATCHA BLONDIE WITH WHITE CHOCOLATE

The emerald edition of Supremum calls for an emerald cake of course! This shade of green is not that emerald, but it is at least somewhat green. And without artificial coloring! Enjoy!

TEXT Alicja Obszyska - GETAART

LIST OF INGREDIENTS

- » 150g butter
- » 2 eggs
- » 1 cup brown sugar
- » 1 ½ cup flour
- » 1 ½ tbsp matcha powder
- » 1 tsp baking powder
- » ½ tsp salt
- » 150g white chocolate
- » Optional toppings: whipped cream, ice cream, fruit

STEP 1

Preheat the oven to 175°C.

STEP 2

Melt the butter in the microwave (it is best to do it in shorter intervals of around 15s and stir in the meantime, so that it doesn't explode) or in a pan on a stove on low heat and let it cool to room temperature.

STEP 3

In a bowl, beat the sugar, butter and eggs together on medium speed with a hand mixer.

STEP 4

Add the dry ingredients and mix.

STEP 5

Cut the white chocolate into smaller pieces and stir with a spoon or mix with a hand mixer on low speed.

STEP 6

Put the mixture in a square baking pan lined with baking paper. Bake it for 25-30 minutes. Use a toothpick to check if the blondies are baked well enough, if the toothpick comes out clean, it's ready! Make sure to not overbake it, it is better if you take it out too early than too late.

STEP 7

Let the blondie cool for about 20 minutes outside of the baking pan before serving (or not, because it is better when it is warm).

STEP 8

Top it with whipped cream, ice cream, fruit, whatever you like! Or not, that's also fine. I used whipped cream with mascarpone and pomegranate seeds.



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

"Ooit al eens 180 euro betaald voor 2 .nl domeinnamen aan een Spaanse bankrekening? Wordt BACpenningmeester!"

Jeroen: "Wat is dit?"

Heel veel penno's: "Fucking irritant!!!"

Ruben: "Soep is echt de energydrink van oude mensen"

Bram: "Tis rum-rozijnenijs, dat is echt mijn favoriet!"

Samuel: "Wow, ik heb een van de 5 Nederlanders gevonden die dit lekker vindt!"

Samuel terwijl er 4 keer hetzelfde nummer op een ander punt opstaat: "Dit is mijn laatste hersencel tijdens een tentamen."

Wietske kijkt een film en er staat 1848 op het scherm

Wietske: "Woow! Deze film is echt vet oud!"

Celine: "Deze rozé smaakt echt anders dan ranja"

Samuel: "Als dit zoals ranja zou smaken dan zouden je ouders je echt goed hebben gepranked"

Maureen, die Luuk uitlegt over de bloemetjes en de bijtjes: "Bijtjes doen bzzzzz. Vibrators ook!"

Maureen legt Ruben uit wat een prela is

Ruben: "Hoe noem je dan de fase na een relatie?"

Maureen: "Een Dela"

Samuel: "Ik wil voornamelijk aan de intro-radio werken"

Daan: "Ah! Je wordt onze radioloog!"

Wietske: "De begroting B.O.O.M. B "dakje" x borrel van Bram Wieringa, versie 1.0 van 25 oktober 2022 wordt goedgekeurd met genoemde wijzigingen."

Tessa V. over het DEMOS feest: "Waarom is het #STUK? Is het stuk tv ofzo?"

Ruben: "Oeh gentle white, dat heb ik nodig"

Sanne vier maanden na haar bestuursjaar als voorzitter

Sanne: "Moet ik nou mijn pasnummer of mijn studentnummer naar Wietske sturen?"

Romy S.: "Een fiets stelen is best moeilijk."

Jesse over een Sioux-goodiebag: "Ah een pizzaopener."

Martijn K.: "en een biersnijder."

Tobin: "Niemand wilt toch met jullie komen zuipen op een maandagavond.."

Vinz: "Ik noem het daarom ook liever een dinsdagochtend"

Bartjan en Rink over anoniem

Rink: "Ze kan niks"

Bartjan: "En ze stelt ook niks voor"

Rink: "Hee, dat is niet heel lief, maar dat ze niks kan was ook niet lief"

Bartjan tegen Roy: "Alsof jij niet blij wordt van het getal 41, ehm, 40, ehm, 39!"

"Chocomel? More like 'Vo-comel!"

Jelte tegen Tessa: "Ik wil best je droomrebound zijn"

Sanne: "Kleine kindjes zijn echt pussies"

Samuel: "Ik had een visie over hoe ik een factuur ging betalen"

Samuel O.: "Wie is deze meid?" "Oh da's Teun."



FSEPIC

What do a tractor tire, four umbrellas, and a child's bike seat have in common? You guessed correctly, they were all gifts at my constitution drink! Recently, I have started my board year as Secretary of the Federation of Study associations Eindhoven, and so far, it has been a blast!

TEXT Isabel Rutten

The Federation of Study associations Eindhoven – or FSE for short – is the umbrella association of the study associations at the TU/e. A study association arranges all sorts of education, career, and leisure related activities for the students of their studies, just like GEWIS does for their mathematics and computer science students! As you might imagine, the eleven study associations at the TU/e come across similar problems. It would be a waste of time if each study association would have to reinvent the wheel for each little problem. Besides that, it is convenient for the TU/e and other parties to be able to address all study associations at once. Hence, once the oldest four study associations – Simon Stevin, Thor, Japie, and van der Waals – came to these conclusions 60 years ago, they united to form the Federation of Study Associations Eindhoven!

The FSE works with two boards, the AB (“Algemeen” / General Board) and the DB (Daily Board). The AB is very similar to the General Members Meeting of a study association. Two members of each board of the study associations are included in the AB, which in result means that 22 people represent the associations. The DB is the executive board: they listen to the AB and try to solve their problems. They are also

approached by other parties, such as the TU/e, and relay information to the AB. Together, they will discuss serious business such as the importance of education and the best way to chug a beer.

Our board, the FSE-DB, consists of four members: the President, the Secretary, the Treasurer, and the Vice-President. Next to this role, we use so-called portfolios; these are a set of tasks related to a certain topic. For example, there are the portfolios Intro, Career, Education, and Bar. This means, in practice, that each person within our board is responsible for a certain aspect within study associations, and is hence a point of contact for this subject. Someone with the Education portfolio will talk to the education officers of the different study associations, but also with other parties within the TU/e, such as the university council. Another person with the Bar portfolio – well, the beers at the study associations need to undergo some quality checks every once in a while. All kidding aside, it is important to ensure that the legalities of the bars are in order such that everyone can keep on enjoying a cheap beer or cola on campus.



Next to these daily tasks, the portfolios also include special activities: the Winter Activity and the FSE-Day. These are organized by a working group, consisting of members of the FSE-DB and the FSE-AB. The Winter Activity is often a kick-off of the well-known Winter market (or WinTU/er market, depending on how much you prefer adding TU/e in every word). The FSE-Day is better known as the BorrelXL, and started, like the name describes, as a drink (“borrel”) with all study associations. The previous edition had more of a concert set up, and the edition before that... I, as a fourth year TU/e student, have never experienced it. Hence, I am very curious to see what we will organize in the future!

As I said before, I have recently become a member of the 60th FSE-DB. As Secretary, it is my job to make minutes for the FSE-AB meetings and to keep the mailbox of the FSE-DB organized. Besides this, I have 4 portfolios: Career, ICT, FSE-Day, and Intro. The Career portfolio aims to improve and sustain the employability of TU/e students. This means that students should develop their professional (soft) skills, such that they are prepared for their future careers. It entails communication with the external affairs officers, MyFuture, and other internal organizations of the

TU/e. The ICT portfolio contains mostly maintenance tasks, such as adding FSE-AB members to the mailing list. The FSE-Day portfolio means being part of the working group that organizes the activity. The Intro portfolio is mostly about helping the study associations with their preparations and making sure that the activities go smoothly throughout the week.

As you might have already read in the previous paragraph, this year is a lustrum year for the FSE-DB! We feel very honored to be the 60th board and are very hyped about helping the different associations during such a special year. Next to that, we will try to celebrate this with them as much as possible by joining the fun parties and drinks.

I personally really like the combination of managing useful university activities as well as setting up a cool event within the same board year. Furthermore, this board year is part-time, so you can still enroll in some courses throughout the year. Have you become as excited as I am about becoming part of the FSE-DB? Feel free to stop by at our shared office with Wervingsdagen in Luna or contact us via our mail fse@tue.nl to learn more!



Infimum: A strange or funny quotation from a teacher, a student or faculty member. Here you can find infima sent to the Supremum committee via inf.gewis.nl.

Jelte: "Ik word gewoon nat, als een man"

Bartjan: "Ah, het komt er niet uit"

Koen: "Wat heb je liever? I.V.F. of I.V.V.?"

Sven: "Ja ik voel hem wel als ie zo groot is!"

Lotte: "Jullie relatie is een subset van de onze"

Suus: "Ik wil plassen maar er zijn te veel sjaarzen in het bos"

Bart Jan: "Please watch out for de water"

Celine: "De kerk is net als een cantus, zij zeggen ook welke bladzijde je moet hebben!"

Jasper: "Er komt geen curry in mijn bed!"

Victor: "Als je doet wat je deed, krijg je wat je kreeg"

Jelte: "Dit zou oprecht een leuke foto zijn als je er niet zo uitzag"

Martijn A. zijn horloge tijdens college: "dit is wat ik heb gevonden"

Pim v L: "your ass is threatening me"

Lucy tijdens de FLUP

Lucy: "Ik moet heel erg nodig pissen"

Leon: "NIET NAAR PC4 GAAN! DAAR LIGT KOTS!"

Susan: "Het heet the Rivierweg, maar er is helemaal geen rivier.."

Lucy: "Het is ook weg"

Anne N.: "Wij hadden een zitzak die zo smaakte!"

Jelte: "Ik ben altijd met m'n vingers bezig"

Victor: "Ik vind dit een belastingfraude manier om onder een one-nightstand uit te komen"

Robin: "Is die dikke overleden?"

Tessa: "Ik zit naast je."

Tessa: "Ik ben nog nooit zo ver gegaan met een deo fles"

Janne: "Heb ik nu penis 1? Oh leuk!"

Wietske: "Het Gat was erg klein"

Spoelstra: "Libelle is gewoon reddit voor vrouwen van middelmare leeftijd cmv"

Lieke H.: "De ene haartjes zijn vervelender om op te eten dan de ander."

Noa: "Jongens, wat is een anoniem voor een kut?"

Kostek: "Noem me een misogynist maar ik sla geen vrouwen."

Noa: "Aimee is lesbisch, Sanne is hetero"

Bartjan: "Ik roeyer je"

Pim: "deze stok is net zo recht als Victor's sexualiteit"

Celine over geen ogen hebben: "ik heb geen hart"

Robin van D: "Het zaad is ook niet zo lekker"

Max O.: "Ja je weet wel, die mensen... aliens"

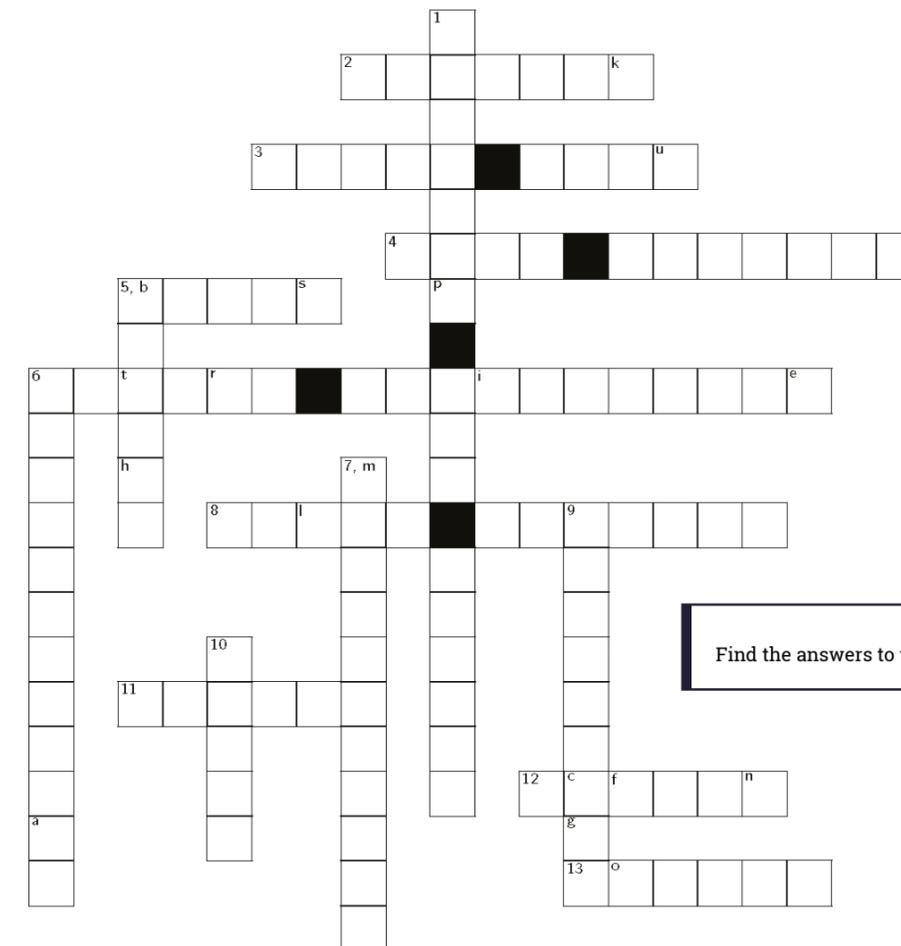
Noa: "I don't know what the -1 floor of the library looks like. I don't even know how to get there!"

BOARD CROSSWORDPUZZLE

As you probably already know, GEWIS has a new board. Every board writes an article for the Supremum in each first edition of the academic year. However, because we already introduced ourselves in the last edition, we thought it would be better to let you guess some fun facts about us! Therefore, we made a nice crossword puzzle for you to make. We hope that you enjoy this nice little puzzle and we wish you good luck. Much love, the 41st board of GEWIS.

Across 2 The atomic number is 41 3 Lucy has the tendency to bras ... 4 The unofficial vice-secretary of GEWIS 5 Favourite animal of Lucy 6 One of the cornerstones from the 41st board. 8, what else? 11 The youngest board member of the 41st board 12 The committee Samuel has been in the longest 13 What to drink while learning?

Down 1 Daan his favourite musical 5 Jasper his favourite hobby 6 Faith of the chair 7 The landcode of this country is 41 9 Nickname of Bartjan (in Dutch) 10 Has a red nose



Find the answers to this puzzle on page 36!

Solution:





MEMBER

THE BEER THAT LIES ON THE FINE LINE BETWEEN BEER AND WINE

When most people think of beer, it will most likely be the bright gold/yellow soft lager: Pilsener (Grolsch). The more advanced beer drinkers tend towards traditional Belgian type beers such as the Belgian Double, Triple and Quadruple. However, a beer that is less known, but very unique and sought after in the beer community, is called Gueuze, a lambic style beer. Gueuze is a sour type beer which is dry and has a very distinct aroma, which often reminds people of an old farm and earthy notes (yes I know, it sounds unpleasant, but it is really nice). The beer gets this type of aromas by what makes it stand out: the yeast. But, if you look closely on the back of a traditional Gueuze bottle, that is the one key ingredient that is missing.

TEXT Wouter Fransen



A Gueuze is a blend of older and younger lambics. Lambic brewers do not use yeast in the same way as other brewers. Instead, they use wild yeasts. They first pour the pre-fermented beer into a huge swimming pool-like basin, called the coolship, which lies inside the brewery. They open the windows to let fresh air in and keep the beer stored overnight in the coolship. Then the magic happens. The air around us also contains yeast. They purposefully let the beer have contact with the air, which starts the fermentation process. The end product will result in a slightly sour beer that still contains sugars: lambic. The lambic is then stored away in oak barrels for at most 3 years, where it ferments even further. To make a Gueuze, the

younger lambic is blended with the older lambic and bottled. In the bottle, the beer undergoes yet another fermentation, which makes the aging of Gueuzes very desirable. A 5 year old Gueuze tastes far more complex and evolved than a fresh one (with some exceptions of course). If stored properly (18C° and dark), these bottles can last for over 20 years! I am currently trying to age some Gueuzes in my cellar, but I drink them a little bit too fast.

The key component that makes Gueuzes stand out so much is the aromas. Since it is fermented by yeast in the air, a wild fermented beer's taste depends on the location where it is brewed. In Belgium, there is a specific region called "Het Pajottenland". Lambic has a protected name by this area, which means that it cannot be brewed in a different region. Notice that a Gueuze is a blend of lambics. That is why some Gueuzes are from other countries, like the Netherlands. Tommie Sjef Wild Ales is a really good example of these blenders. He buys the lambics from brewers and blends them on his own, which requires more skill than you might think.

After you have access to lambics of different ages, you can go several different ways. Bottling directly after blending results in a Gueuze as we have previously seen. A different direction blenders can go in is adding fruits to the lambic. This results in something which you definitely have seen and tasted, and have either hated or loved: fruited lambics. An immediate example: Lindemans. Yes, I know, I have rambled on and on about one of the greatest beer styles to have ever existed and now I am talking about the sticky sweet beer that most people do not even regard as beer. The Lindemans brewery actually contains one of my all-time favorite beers: the Oude Kriek Cuvée René. This is a lambic containing, you guessed it, krieken (sour cherries). This again is a beer which is very sour, earthy, has that tartness of cherry and is surprisingly dry. So how can this legendary beer be in the same category as a fruity liquid that 15 year old girls drink because it is so sweet? Because the young kriek only consists of young lambic which does not even age on oak barrels but is immediately bottled after fermentation. It also does not use fresh krieken, but rather a kriek extract.

“ ... Het Pajottenland ”

As brewers and blenders invented fruited lambics, they obviously started to experiment with different kinds of fruits. It did not take long for a brewer to use wine grapes in their lambic. Cantillon, the most sought after brewery on the globe (seriously, some bottles of Cantillon are auctioned for thousands of euro's), is the king of using grapes in their lambics. The Vigneronne uses Viognier grapes in the lambic. As you can imagine, this beer has lots of similarities with wine. There is however, another Cantillon beer that exceeds the Vigneronne in similarities with wine: the Grand Cru Bruocsella. This beer is literally considered the link between wine and beer, which is strange, as it contains only water, malt and hops (so no grapes!). This is the reason why a lot of wine-lovers are also intrigued by old fruited lambics and Gueuzes. Working in a wine shop myself (Wijnhuis Panningen), I have tasted a lot of wines and seen similarities

between lambics and wine and I am still learning from my colleagues. I have only barely scratched the surface of lambics in this short article and there is a lot more to discover and learn. The food pairing of lambics is one of the complex subjects on which I am trying to advance.

“ ... a wild fermented beer's taste depends on the location where it is brewed ”

So if you love some more special beers and are not afraid to try something new, definitely try an Oude Gueuze. Most beer shops will have a few of these beers. I recommend starting with a Boon Oude Gueuze or a Lindemans Oude Gueuze Cuvée René . If you would like to try something more advanced, give the Boon Mariage Parfait a shot. And if you really like the taste of these beers, I have a few saved up for sharing!



*Infimum: A strange or funny quotation from a teacher, a student or faculty member.
Here you can find infima sent to the Supremum committee via inf.gewis.nl.*

Bartjan H. tegen Robin: "Nee jij bent mooi."

Koen vd B.: "Pak een bal, maak er boven één gat in.
Maak er nog twee aan de onderkant, dan heb je een broek!"

Maureen: "Tomaat is echt fucking chill."

Bjorn: "Ik heb een jonger zusje en daarmee kan ik alles doen wat ik wil"

Ralph: "Nee, dat is niet wit genoeg."

Jelte: "Het was ooit een Venn-diagram, nu is het Tessa"

Houthuijs: "Tering, ik ga niet werken voor m'n geld!"

Ralf: "Hoe heet zij ook alweer, dat aardige meisje? Ohja Naomi!"

Edwin: "Koopmans legt beslag op de bal"

Jelte: "Zet jij een timer voor je pasta?"

Robin: "Nee ik kijk op m'n horloge."

Jelte: "Ik doe dat met liefde."

Dylan: "Wil jij 'm lekker sappig en stevig of juist lekker hard?"

Wietske: "Ja, hij begint te komen!"

Roy: "Je kunt zo hard wippen en duwen als je wilt, maar als je niet het goede punt hebt, dan gaat hij niet open."

Roy: "The floor is really dirty and pretty hard."

Ileen: "But the floor is cold"

Roy: "That's true (...) and it is actually really good if you lie on it."

Lieke: "ik wil gewoon rammen"

Samuel stuurt memes terwijl hij op de plee zit

Wietske: "Jij bent echt veel aan 't kakken jongeman"

Wietske: "Ik vind dat fijn"

Lotte: "Hoeveel kleuren heeft een 2x2 Rubiks cube?"

Noa vertaal het woord toetsenbord: "touchbord"

Celine: "mijn koelkast ruikt naar beschimmelde schimmel"

Thijs: "Ik ben niet dronken, maar ik ben wel van mijn fiets gevallen!"

Nick: "Het was drie stoten en daarna ging ze nog vrijwillig weg ook"

Abi: "L8er sk8er"

Anouk: "NIET LIKKEN, MAAR ZUIGEN!!"

Answers to the board puzzle on page 33

Across

2 Niobium 3 Board pins 4 Daan Verkado 5 Horse
6 Career Development 8
Douwe Egberts 11 Celine 12 GEHACK 13 Ketell

Down

1 Soldaat van Oranje 5 Harken 6 Christianity
7 Switzerland 9 Blaaswerk 10
Clown

A PECULIAR BUS RIDE

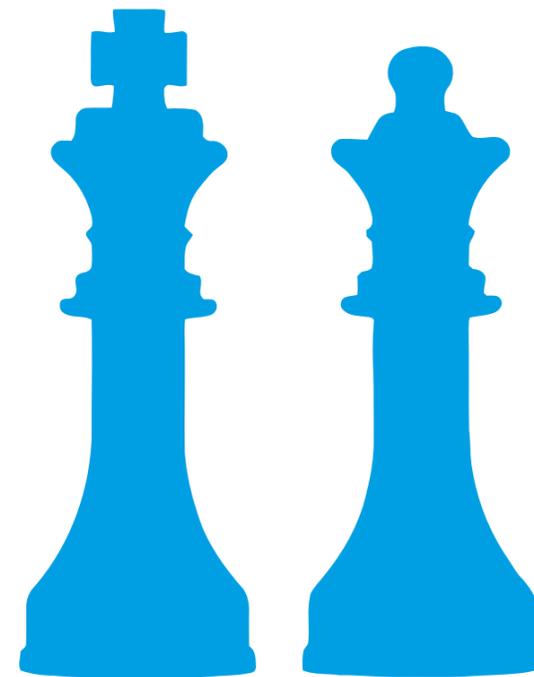
When I was fourteen years old, I used to commute to school by bus. The bus tended to be completely filled with high schoolers like myself, from small villages in Zeeuws-Vlaanderen. When the refugee crisis came about in 2015, a big group of Syrians joined the population of this bus. You can imagine that the bus became completely overcrowded, and the fairly xenophobic local population was not happy with this development.

TEXT Bas van Doren

One day I was sitting on the bus, and a Syrian boy came to sit next to me. I was playing chess on my phone, as I often do to kill time. The boy also grabbed his phone and started playing chess. I took notice of this and after a bit of time, I asked him whether he wanted to play. His English was not very good, but he understood what I meant, and we started playing chess on my phone. He was quite good at the game, and we had a very interesting match.

I got a lot of strange looks from all around the bus, from people who were wondering what I was doing: why would you talk to that refugee, let alone let him touch your phone? What if he steals it? Nonetheless, it was very clear that this boy had no intention of such things and was simply enjoying a game of chess. We exchanged a few words and he told me he had travelled a long way to flee from the war in his home country, and chess had been more or less the only constant factor in his journey to the Netherlands.

This anecdote highlights one of the great things about this game for me. Despite the language barrier, the overcrowded bus, and the vast cultural differences, we were able to communicate through the game of chess, and find out that in many ways we are not at all so different. Of course, chess is not the only game that suits this purpose: basically any shared hobby is a great way to surpass cultural barriers. However, chess does have the advantage of being available virtually in all places at all times, which is not entirely true for windsurfing or aerobatic flying, for example.



Supremum 55.0 | 37



1968: A LONG, LONG TIME AGO

5 5 years ago, we think around April 1968, the very first edition of *Supremum* was published. It was way different from the edition you are holding now. It was typeset using a typewriter, there were no colours, except for the coloured carton used for the cover, and *GEWIS* did not even exist yet! Back then, *Supremum* was the magazine for the Mathematics study association *Sunya*. Oh, and it was all in Dutch. However, not only the *Supremum* was different. Everything else seemed different as well. An excellent and really inevitable example of this is music. Imagine having lived back then! The Beatles were all over the place, although the beginning of their final years had just set in. The Rolling Stones were in some of their somewhat drug-driven, but tremendous years. Even the King of Rock 'n Roll, the great Elvis Presley, had his comeback after focusing on acting for several years.

TEXT Mathieu de Ridder

In this new column, Mathieu's Music, I will take you with me into the world of music, albeit only the music that I like, of course. In every edition, I will discuss an album, an artist or band, a lesser-known genre or even a single song. I will try to point out a small part of this inexhaustible source, using recommendations, tips and tricks, and possibly a lot of Dire Straits, but most of all, I hope to get you excited about the music!

Supremum's beginning, its Genesis, April 1968... It was an eventful time. The most memorable event, though, must have been the assassination of Martin Luther King Jr. He was an American minister of the Baptist church, but most of all a civil rights activist. His main objective was racial equality, which truly was not at all present in that time. You have probably heard of his most famous words: "I have a dream...". If not because of general knowledge, you might recognise them from the song "One Day (Vandaag)" (2012), by Dutch producer Bakermat.

The assassination of Reverend King affected many people, among which Nina Simone. Her album "Nuff Said!" was released in 1968 and nine out of eleven



tracks are live recordings of a performance at the Westbury Music Fair on April 7th – only three days after his death – that was entirely dedicated to Martin Luther King. She was announced as "The High Priestess of Soul", as she waited to sing the first words of "In the Morning". You might know Nina Simone from another song on the album: "Ain't Got No – I Got Life", which is a very good song, but not the most interesting one on the album if you ask me. Take a look at the song: "Why? (The King of Love Is Dead)". It may be long, but it most certainly is twelve minutes well-spent. It was written by Simone's bass player Gene Taylor, who wrote the song in response to King's death. Nina therefore only had a day to practise the song, which makes it very pure. The lyrics truly are poetic already, but Simone's recital cuts through the marrow. Don't turn

it off when she is done singing, however, because she hasn't finished yet. Before returning to the chorus, she starts a monologue that was apparently so long that it was heavily cut. However, some of her words really get to you. She says, for instance: "They're shooting us down one by one. Don't forget that. Because they are... Killing us one by one." As a black person back then, she was only one of many, many people that were led by this thought. My honest advice is to play this song, sit back, close your eyes, listen to every word she sings or tells and let these words find their way right to your heart. And while you're at it, why not listen to the whole album!

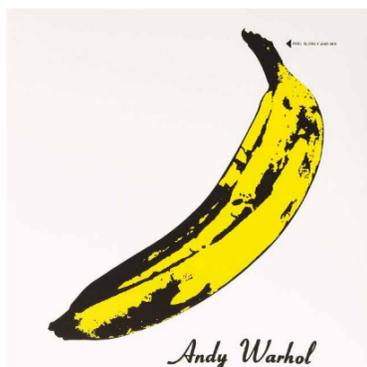
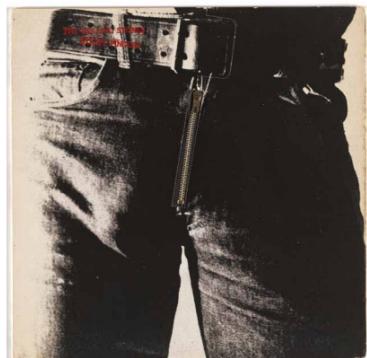
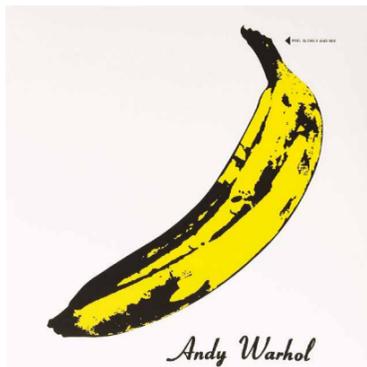
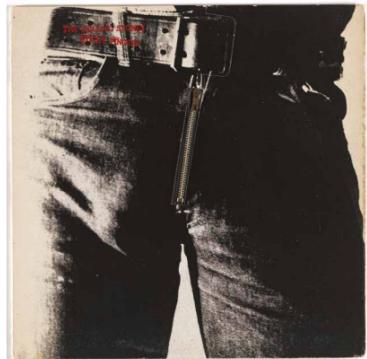
Nina Simone wasn't the only one inspired by Martin Luther King and his death, though. A more well-known example is the song "Pride (In the Name of Love)" (1984) by U2, which is based on his death as well. It is one of their many songs that are inspired by wrongdoing such as murder, war, or rioting. First released on the album "The Unforgettable Fire", it received critical reviews. One of the reasons for this was the line: "Early morning, April four. A shot rings out in the Memphis sky", while in fact, King was shot just after 6 p.m. Indeed, lead singer Bono has acknowledged this error and in live performances of their hit, he often refines it by singing "Early evening, April four." As for many songs: once you know what it is about, the lyrics finally mean something.

Unfortunately, 1968 contained more than one tragic event. Also the famous artist Andy Warhol was shot. He survived after five hours of surgery, only a year after he released the famous album "The Velvet Underground & Nico" (1967). He was the manager of the band, their producer – although he effectively did not contribute too much to the production, but mainly paid for it – and the one who brought the band together with singer Nico. He also designed the cover of a banana. In the earliest version of the album cover, one could peel the skin off to find a freshly peeled banana. This is not the only album cover he designed. He was also the one that designed the famous album cover of "Sticky Fingers" (1971), the The Rolling Stones album containing a picture of a man wearing jeans, where

you could open the zipper, showing his white boxers. It contains hits like "Brown Sugar", "Wild Horses" and "Bitch". Although many people believed the picture to be Stones lead singer Mick Jagger's, Andy Warhol actually took photos of seven men, not including Jagger, and never revealed the true model. Both albums are collector's items now!

Although in general Warhol's musical outing is not considered an artistic masterpiece by many, "The Velvet Underground & Nico" is now widely seen as one of the most influential albums in rock and pop music. In the early years, it was quite controversial. Concepts like those in the song "Heroin" from this album were out of the question. Also the music itself was too daring to be commercially successful. It was, after all, the time that psychedelic rock hit its peak. Think of the albums "Their Satanic Majesties Request" (1967) by The Rolling Stones or "Sgt. Pepper's Lonely Hearts Club Band" (1967) by The Beatles. There was no space for the progressive, experimental rock that The Velvet Underground expressed. It wasn't until the end of the seventies that critics began to praise the work. Unfortunately for Warhol, though, after the album, lead singer Lou Reed – which you might know from "Walk on the Wild Side" (1972) – disagreed with Warhol's artistic views on the music and stopped collaborating with him.

This is only a tiny part of everything that the world of music had in store a long, long time ago, but everything must come to an end. You can find all songs that are mentioned in this column on my Spotify. If you have any suggestions for one of my columns (favourite album/artist, a random album from my record shelf, the best song/album of a certain year...), feel free to talk to me or send me an email! Also for any questions, rectifications, or music suggestions you are welcome to contact me as well!



*Infimum: A strange or funny quotation from a teacher, a student or faculty member.
Here you can find infima sent to the Supremum committee via inf.gewis.nl.*

Job is soeplepels aan het uitdelen bij het toetje

Roy: "Ik wil toch geen soeplepel! Ik wil een dessertlepel!"

Serveerster komt aan met soeplepels

Roy: "Dankjewel"

Sanne wijzend op Leon's zuigzoenen: "Je bent bijna een soort barcode geworden!"

Sanne: "Wacht is de Quick een FEBO of een gaybar?"

Roy tegen Samuel: "Waarom heb je je mond er niet op gezet toen hij begon met spuiten?"

Tijdens BAC weekend

Tim aan de telefoon: "He schat, kan jij de inloggegevens van de bibliotheek doorsturen?"

Wouter: "Zijn het zes dozen?"

Bartjan: "Geen idee, het zijn er drie."

Wouter van der H.: "Iedereen wil met mij naar bed in Friesland!"

Rob Eggermont: "Every sheep has 2 legs. Please don't take this sentence out of context!"

Sanne tijdens dat ze puzzelt in de Donald Duck:

"Bestuur ik ben enthousiast, eindelijk een puzzel van mijn niveau!"

Robin op schaatsen: "Ik ben voor klimaatopwarming!"

Lucy: "Als ik seizoenen zie, zie ik winter rechtsonder!"

Celine: "Nee, dat is linksboven!"

Bartjan: "Ik denk dat ik een sjaars wil pakken (...) uitnodigen bedoel ik (...) voor het rectorgesprek!"

"By solving exercise 1a, we gave a proof for exercise 1b"

Lucas R: "Proof by Accident"

Robin v D: "Hoe heet dat nummer van goldband over een kinderwens?"

Jelte: "Ik put de noob in programming"

"Noobgramming?"

Houthuijs: "Ik heb medelijden met al die vrouwen die door mij geschuurd moesten worden."

Sven: "maar naaien is nog meer karakter"

Sanne: "Een meisje van m'n genderstudies minor dacht dat m'n laptop gehackt was, maar dat was gewoon m'n Computer Systems huiswerk!"

Jasper G. tegen Samuel over een tafel: "Ga jij aan de kant dan duw ik m aan"

Romy: "Ik ben echt aan het kauwen op die duizend ballen van Kees."

Sanne tegen Aimee over piemels: "Ze zijn banger voor jou, dan jij voor hen."

Wouter v. H. eet een appeltaart

Sjoerd v. H.: "Oh, ben je jarig?"

Wouter: "Nee, dit is mijn lunch. Ik had geen broodbeleg meer"

Vriendin van Kees: "Ik ben heel goed in faken"

Willem van W tijdens potje Airhockey: "Dit is echt het eerste balspel waar ik wel goed in ben"

Celine: "als iemand naar het gaatje zoekt, dan zoekt ie dus eigenlijk naar de anus"

Chingyee: "Ik dacht dat jij niet kon fietsen met mensen achterop?"

Annemiek: "Eigenlijk wel, maar dan moet ik harder trappen"

Finn: "De laatste keer dat ik in Eindhoven ging stappen was in Antwerpen."

"ik wil eigenlijk heel GEWIS niet zoenen"

Anouk: "dat dacht ik eerst ook"

Aimee: "Hoe schrijf je toetje? Met één s of dubbel s?"

Samuel: "weet je wat ik nog erger vind dan Pinterest? Fransen!"

Bas van D.: "Tetrahedons mogen de tetra-tering krijgen."

Niekie zingt: "De wereld is weer plat ja, op je gore bips na..."

Tom U.: "Ik had dit weekend hoofdpijn omdat ik te weinig had gedronken, dus ik moet wel genoeg water meenemen."

Frederik O.: "Dat is een afweging, want ik heb hoofdpijn omdat ik gisteren te veel heb gedronken."

Roy: "Waarom zie ik allemaal filmpjes?"

Rink: "Je kijkt naar YouTube"

Roy: "Nee, ik zie filmpjes in Premiere Pro"

Bartjan laat foto zien van vader van Samuel toen hij zeventien was

Robin: "Ik zou hem doen"

Wesley B. over Job en Romy: "Het was heel bloederig."

Bartjan H.: "Ik denk dat Lieke het wel had geaccepteerd als ik 3Blue1Brown had getongd op het SNIc."

Rens: "Je moet je BEP gewoon edgen."

Bartjan, pratend over de intro: "Natuurlijk, er zijn altijd leuke sjaarzen"

Bartjan: "Er zijn vandaag al twee infimum [sic] geweest over dat ik ga cheaten op Lieke; één met 3Blue1Brown en één dat sjaarzen leuk zijn."

Robin: "Behandel hem alsof het je vriendin is."

Bartjan slaat de PC

Bartjan H.: "Een andere vriendin van mij woont daar!"
(...)

Robin v. D.: "Heb jij NOG een vriendin?"

Rink P.: "En toen stond ik bij de pinautomaat als een gokverslaafde die elke pinautomaat leeg probeert te halen"

Aimee: "Dortmund, daar spreken ze toch geen Frans"

Lotte: "JAWÜL!"

Niek B (appt): "Mijn hersenen frituren zijn vaak gefrituurd na een lange dag wiskunde"

Lotte: "In Cuba spreken ze ook Frans"

Daan V.: "Ik zit ergens tussen niezen en huilen"

Lotte: "We kunnen ook liften naar Cuba!"

Steekt duim omhoog

Lotte: "KML, mag ik meevliegen?"

Suus over de kerstborrel: "Is er nog iets anders te snacken of is er alleen maar paasstol?"

Tessa: "Het is maar goed dat gelimbo dood is, anders waren ze mijn dood geworden."

Leon: "Hiske, ik vind het leuk dat je hier bent gaan studeren en niet in Enschede, je bent echt een verrijking voor mijn Nederlandse cultuur!"

Leon: "Sanne, er moeten nog een paar infima bij, zeg eens iets doms!"

COMMITTEES & FRATERNITIES

GEWIS is built on top of committees. Besides, Study Association GEWIS has several fraternities which contribute to the atmosphere and organize activities.

Find out more at: www.gewis.nl/association.

FRATERNITIES

ATHENA
ATHENA



B.O.O.M.
Buitenplezier Op Onze Manier



Défi
Défi



GELIMBO
GEWIS Ervaart Limburgse
Initiatieven Met Bewondering
en Ontzag



GEPWNAGE
GEWIS Plant Weer Nerdige
Activiteiten en Geeky
Evenementen



I.V.V
In Vino Veritas



COMMITTEES

ABC
ApplicatieBeheer Commissie

AC
Activiteiten Commissie

AVICO
Audio- en VideoCommissie

BAC
BAr Commissie

C4
Corporate Communication and
Contact Committee

CBC
Computer Beheer Commissie

CC ★
CarnavalsCommissie
FYC23-0 50/50 ★
First Year Committee
FYC23-1 DeBugKing ★
First Year Committee
FYC23-2 De Klok Blok ★
First Year Committee
FYC23-3 Algora ★
First Year Committee
FYC23-4 Amplify ★
First Year Committee

GEBALLMERPIEK
GEWIS'sers Ervaren BALLen MET
Rigoreuze Precisie In
Excentrieke Kups

GEBEP
GEWIS Borrows Euler's Proofs

GEBEUN
GEWIS'ers Beunen Enkele
'Unieke Nuttigheden

GEDWAAL
GEWIS'ers Dwalen Waar
Anderen Anders Lopen

GEFLITST
GEWIS Fotografeert Leden In
Toffe Situaties, Toch?

GEHACK
GEWIS Ervaart Het
Algoritmisch Code Kloppen

GELIFT ★
GEWIS'ers Liften Ieder
Fantastisch Traject

GELOBAL
GEWIS'ers Loving Open
Borders and Abolishing
Language barriers

GEPLONSDT ★
GEWIS'ers Producing Lots Of
New Stories with Delft and
Twente

GESPORT ★
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GETAART
GEWIS'sers Eten TAART

GEWISKI ★
GEWISers Ervaren Wintersport
In Super Koele Ijstijden

GEZWEM
GEWIS Zeilt Weer Een Meter

GSM
GEWIS Social Media

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STIJL
Huisstijl Commissie

SUPREMUM
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TRAIN
Training

YBC22
YearBook Committee 2022

SUPREMUM COLOPHON

SUPREMUM

The Supremum is the magazine of study association GEWIS and is published three times a year with a circulation of 850 copies. The Supremum is distributed to members of GEWIS and employees of the Department of Mathematics & Computer Science of Eindhoven University of Technology.

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THANKS TO

All writers for their articles, our sponsors and everyone else who has helped creating the Supremum.

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MAGAZINE DESIGN

Alex Dings, Stephan van den Berkmortel

COVER CREDITS

Illustration: Sanne de Wit

TECHNICAL INFORMATION

Body font: Roboto Slab
Headline font: Franklin Gothic
Formatting: Adobe InDesign
Printing: Drukkerij Snep
Circulation: 850 units
January 2023

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