

2021-2022

Issue 5



# MaChTazine

Materials Science &  
Chemical Technology

**MaChT Meets  
the Industry  
23/02/2022**

# Introduction

Hey everyone!

Here we are again with our 5<sup>th</sup> MaChTazine already. The focus is on our largest event, MaChT Meets the Industry. We give you some tips on how to get the most out of the event and to help you find an interesting job or internship that you want to apply for. Be sure to register in time to participate!

This edition we also have an article on the best Asian food (in Felix's opinion) in Ghent for you to try. And of course, there are also 3 (!) puzzles where you can win awesome prizes, so go solve and submit them! Good luck in your new semester!

Your MaChT press—Felix and Tessa

## Overview of coming events

Our largest event of the year, **MaChT Meets the Industry**, on **23 February** is coming closer, so make sure you are registered before the 19<sup>th</sup> of February! More information can be found on the next page.

On **8 March** MaChT organises the well-known **CMM quiz** together with the Center of Molecular Modelling.

In March we will go on a **company visit**, but the format of that visit will be announced later. If you want to make sure you are available to come with us, save the date of **18 March**!

Before the Easter Holidays, on the **29<sup>th</sup> March**, there is a very popular event, namely the **MaChT Cocktail Night @ Delta**. In short: good times and delicious cocktails.

Maybe a little bit early to announce it, but after the Easter holidays there will be a large event organised by the different associations of Zwijnaarde, called the **Zwijnaardse Feesten**. Here also: save the date of **21 April** and more information will follow.

| When?       | What?                    | Where?                          |
|-------------|--------------------------|---------------------------------|
| 23 February | MaChT Meets the Industry | The Lab (address see next page) |
| 8 March     | CMM Quiz                 | Auditorium 3—S9 Campus Sterre   |
| 18 March    | Company visit            | Format to be announced          |
| 29 March    | MaChT Cocktail Night     | Delta                           |
| 21 April    | Zwijnaardse Feesten      | Zwijnaarde                      |

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# Next event: MaChT Meets the Industry



## MaChT Meets the Industry

A great opportunity to speed date with companies!

**23 February 2022, 19:00**

**The Lab @ Nederzwijsnaarde 2, 9052 Ghent**

Register at:

- [bit.ly/machtmeets](https://bit.ly/machtmeets)
- or with the QR code

Registration closes on  
19 February at 23:00



# Possible things to do before attending MaChT Meets the Industry (or any other job fair)

It is always better to be prepared when attending a job fair where your possible future employer is present. Therefore here are some things you can do to get the most out of your visit to MaChT Meets the Industry.

- Register yourself for the event
- Update your resume or curriculum vitae (CV)

Tips can be found on the next page.

- Do some research about the companies

By looking for more information about the attending companies you can already decide which companies could be interesting for you and which not. This allows you to focus on the companies that are a possible match for you and you can ask more in depth questions.

- Prepare some questions you want to ask

You will not forget to ask the most important questions when you prepare them beforehand. This will show initiative to the attending people but it will also help you to focus on what information you wanted to get from them.

- Prepare answers to frequently asked questions

Having an answer to questions that are frequently asked by recruiters allows you to have a strong answer and it displays your strengths more effectively.

- Take a notebook with you

When talking with a lot of different people from the various companies it can be difficult to know what everyone has told you. Taking notes can help you to have a clear overview of the answers to your questions after the event. It is also said that taking notes show interest.

# Tips for your resume or Curriculum Vitae

When you want to apply for a job or an internship, it is important that your resume is attractive for the recruiter who needs to choose you and that it is up to date. Here some tips are listed to make your resume even better.

- Never forget to add your contact data, such as your email address (not UGent address) and telephone number.
- Add a picture of yourself. Make sure it is a neutral picture of you and not one from you at the pool on your latest summer vacation.
- Add a link to your LinkedIn profile. A nice tip here is that you can edit the link with a lot of numbers and letters that refers to your profile to [www.linkedin.com/in/yourname](http://www.linkedin.com/in/yourname), this can easily be done on your LinkedIn profile page.
- List the skills you have that could be relevant for the job/internship you are applying for.
- Be short and clear.
- You could add a short text describing yourself about your competences and qualities.

The word 'RESUME' is written in a large, white, hand-drawn, chalk-like font on a solid black rectangular background.

# Interesting questions to ask during MaChT Meets the Industry

When you go to a job fair like MaChT Meets the Industry, it is an excellent opportunity to learn all you can about a company. But it can sometimes be difficult to find the right questions to ask, especially on the spot. Therefore we listed some questions that could help you.

- What career paths are available in your organisation?
- What are the different steps in the hiring process?
- What does an engineer, who studied the same as me, do in your company?  
Can you give examples of different tasks he/she does?
- Ask questions about how the person you are speaking with experiences working at the company.
- Are there possibilities to work/go abroad when working in your organisation? Ask about growth opportunities.
- Ask questions about the products of a company, recent news you have read, ... In short: show interest in what they are doing and get more information about it.
- How can I contact the company when I want more information or if I want to apply?

Sources: <https://www.themuse.com/advice/questions-to-ask-at-career-fairs> and <https://www.careerfairplus.com/blog/8-questions-to-ask-employers>



# Which Logo is This?

Here's a fun little puzzle to get you in the spirit of MaChT Meets the Industry. Here are the logos of the 16 companies that will be attending the event... but only a small portion of their logo is shown. Can you recognise each of the companies? There's no prize for this little puzzle... but maybe the real prize is the friends we meet - logos we recognise along the way.

AirLiquide   Alvalence   ArcelorMittal   BASF   Beaulieu International Group   Borealis   Cargill  
Covestro   Dow   Eastman   ExxonMobil   Milliken   Ontex   Solvay   TotalEnergies   Yara



Progress beyond



Keep Discovering



Do you see a hidden word in the logos?

# The Best Asian Food in Ghent

People always ask me: “Felix, what do you miss most since coming to Belgium?” And usually, my answer is “Asian food!” As gezellig of a city Ghent is, it is unfortunately not known for having a large East Asian population (unless you count the international students). But that doesn’t mean there aren’t some great restaurants, so here is a list of my favourites (so far)!

## Umamido (Walpoortstraat 38)

This is my go-to ramen joint in Ghent! A combination of a great location (near Plateau) and solid value (€14 for a bowl), Umamido serves some outstanding Japanese noodles in a cozy little hall (or in their back terrace).

I recommend: Kara Miso Tonkotsu Ramen — nice and spicy, rich pork broth, and mouth-watering pork belly, all for just €14.



## Destiny Asian Food (Bennesteeg 23)

Sichuan cuisine is known for its HEAT, which is why it’s my favourite! If you’re in the mood to share, order a couple of dishes with friends, as it lets you try a couple different flavours, family style. In my experience, this will cost roughly €20 per person, with leftovers you can bring home.

I recommend: Eggplant from the chef, beef in hot chili sauce, and the pork belly with Sichuan sauce. These are pretty standard Sichuan dishes and offer a nice range of meats and flavours.

## Yammi Yammi (Overpoortstraat 49a)

Sushi is a tricky one. I personally don’t think supermarket sushi is ever worth the price, and truly good sushi will often lead to an expensive dinner bill. That’s why you have to go for the best value for your buck. Enter Yammi Yammi. €27 for dinner is a lot, but it’s all you can eat! They have a wide selection of delicious sushi, nigiri, and sashimi, and some fried foods. You can even finish that off with complementary ice cream. I don’t come here often, but when I do, I leave with a really (REALLY) full stomach and that’s worth it.

I recommend: Aside from their sushi, I love their tori katsu (pan-fried breaded chicken), shrimp tempura, duck breast, deep-fried sesame balls, and black sesame ice cream.



(continued on next page)



# Job vacancy at *Cargill*<sup>®</sup>

## Cargill - Technical Management Trainee

**Job location: Ghent, Belgium**

Cargill provides food, agriculture, financial and industrial products and services to the world and has over 155 years of experience. Cargill has 155,000 employees in 70 countries.

As a Technical Graduate you will apply your technical knowledge and your leadership potential in a hands-on environment. Early on, you may be responsible for a significant part of the production process and for the people that make it happen. You will be expected to contribute to productivity, quality, safety and process improvement. Your success is determined by your capability to develop yourself as a technical expert in your field or a future technical leader.

The Cargill site in Ghent consists of a rapeseed/soybean crush plant, a vegetable oil refinery and two multi-feedstock biodiesel plants. For a period of 2 years, the Technical Management Trainee will take on different positions within the plant operations environment (production, maintenance, reliability, safety and process engineering) with the objective of learning the specifics of the process, the raw material, the assets and the overall industry challenges and opportunities. Therefore you will start your traineeship with an in-depth process training in shifts. It is expected you contribute actively in the day-to-day activities or could take over certain activities that are part of other roles. You will be gradually assuming the leadership of the different areas of the production environment according to progress measured on the overall training schedule. Next to your technical traineeship you will be part of the European Graduate Program which will provide you with virtual learning experiences and networking with international colleagues.

We are looking for motivated university graduates in engineering (mechanical, chemical, process, agricultural, food science) that have a strong hands-on mentality and are fluent in Dutch and English. In return for your expertise and commitment, we will provide a fast paced stimulating international environment, which will stretch your abilities and channel your talents. If you are interested in joining our team as a Technical Management Trainee please apply at <https://careers.cargill.com/>.

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## Kin Khao (Donkersteeg 21/23)

Finally, leaving the most expensive for last, there's Kin Khao. Incredible authentic Thai food, so good that it won Gault&Millau's 2020 Best Thai in BeLux. The price point is a bit more expensive, but it's a great choice for date night or a fancier gastronomic adventure. Everything is delicious, but remember in Thai cuisine, spiciness is always underestimated — protect your tongue!

I recommend: €39 for the Choice Menu (three-course) is the best value since you can try many dishes. If ordering à la carte, go for the Crispy pork belly with pak choi or the salmon with red curry.



**Did I miss an Asian restaurant that you find yourself craving? If so, let me know at [Felix.Guo@ugent.be](mailto:Felix.Guo@ugent.be)!**

# Company of the month: BASF



## Van burgie tot BASF'er!

Jaarlijks werven we jonge burgelijk ingenieurs aan voor ons Young Graduate traject. In dit programma krijgen ingenieurs de kans om onze verschillende vakdiensten en productieafdelingen te leren kennen via uitdagende jobs. Eline startte vorig jaar aan dit avontuur. Ontdek hoe zij haar eerste maanden beleefde!



*Eline Maes*  
24 jaar  
Mechanical  
Engineering

Via de jobbeurs kwam ik in contact met enkele enthousiaste medewerkers die me vertelden dat er bij BASF ook een grote nood is aan werktuigkundig ingenieurs. Ik solliciteerde voor het Young Graduates programma en ben in september gestart als junior asset manager. Je bent als asset manager verantwoordelijk voor de correcte werking en de onderhoudsstrategie van je installatie. Je komt terecht in een productieomgeving die heel dynamisch is, wat betekent dat elke werkdag anders en uitdagend is!

Bij BASF krijg je de kans om veel te leren met de juiste ondersteuning: je krijgt een meter/peter toegewezen en een hoop behulpzame collega's! Uiteraard wordt dit aangevuld met een interessant opleidingspakket. Door betrokken te worden bij projecten kom je in contact met verschillende diensten en leer je de ruime mogelijkheden binnen BASF snel kennen. Er is dus voor ieder wat wils en veel ruimte om jezelf te ontwikkelen en te blijven uitdagen!

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Ook zin gekregen in een carrière bij BASF?

Laat van je horen en neem  
een kijkje op onze website [werkenbijbasf.be](https://werkenbijbasf.be)



# Puzzle BASF

Here's a cathartic **binary puzzle**. The rules are:

1. Each box can only contain 0 or 1.
2. More than two 0's or 1's immediately next to each other are not allowed.
3. Each row and each column should contain an equal number of zeros and ones.
4. Each row is unique and each column is unique.

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   | 0 | 0 |   |   | 1 | 1 |   | 1 |   | 0 | 0 |   | 0 |
|   |   |   |   |   |   |   |   |   |   |   | 0 |   |   |
|   | 0 | 0 |   |   |   |   | 1 | 1 |   |   |   | 1 |   |
|   | 0 |   | 1 | 1 |   | 0 |   |   |   | 0 |   |   |   |
|   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |
| 0 | 1 |   |   |   |   |   |   | 0 |   | 1 | 1 |   | 1 |
|   |   |   | 0 |   |   | 1 |   |   | 0 |   |   |   |   |
|   | 0 |   |   |   |   |   |   |   |   |   |   |   | 0 |
|   |   |   |   | 1 |   | 0 | 0 |   | 1 |   |   | 0 | 0 |
|   | 1 | 1 |   |   |   | 0 | 0 |   |   |   |   | 0 |   |
| 0 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |
|   | 0 |   |   |   |   |   |   |   |   | 1 |   |   |   |
| 1 |   |   |   |   |   | 1 | 1 |   | 0 |   | 0 |   | 0 |
|   | 1 |   |   | 0 |   |   | 1 |   |   |   | 0 |   | 1 |

**Solve the puzzle** and deposit your solution in one of our boxes at 46, 70A or 125 or send it to **macht@ugent.be** before the **11<sup>th</sup> of March** for a chance to win the awesome prize offered by **BASF**! Good luck!

Name: \_\_\_\_\_

Email: \_\_\_\_\_



# Company of the month: Cargill



Helping the world *thrive*

## Our purpose

We exist to nourish the world in a safe, responsible and sustainable way.

### Agriculture

- Farm services
- Grain & oilseed trading, processing and supply chain
- Sugar
- Cotton
- Palm oil
- Animal nutrition



### Industrial

- Energy trading
- Ocean transportation
- Biodiesel & Bioethanol
- Metals & ores
- Industrial salt & starches
- Bioindustrials & renewables



### Financial

- Structured finance
- Risk management services



### Food

- Cacao & Chocolate
- Malt
- Sweeteners
- Texturizers & emulsifiers
- Refined oils
- Dressings & sauces
- Beef & poultry



155,000  
employees

Working in  
70  
countries

155  
years of  
experience

\$114.6  
billion in  
annual revenue

Cargill supplies bulk commodities and ingredients to food, agricultural and industrial companies around the world. Cargill has locations in, among others: Antwerp, Ghent, Izegem, Sas van Gent, Bergen op Zoom, ... Cargill's activities in these sites include:

- Production of cocoa and chocolate
- Processing of grains and oilseeds
- Production of starch, sweeteners and texturizers
- Refining and bottling of vegetable oils and fats
- Production of biodiesel & alcohol

Working at Cargill is an opportunity to thrive – a place to develop your career to the fullest while engaging in meaningful work that makes a positive impact around the globe. We offer a diverse, inclusive and inspiring working environment where you will grow personally and professionally. We aim to develop top diverse university talent towards future expert and managerial roles.

We are looking for motivated university graduates in engineering (mechanical, chemical, process, agricultural, food science) that have a strong hands-on mentality and are fluent in Dutch and English. In return for your expertise and commitment, we will provide a fast-paced stimulating international environment, which will stretch your abilities and channel your talents. If you are interested in joining our team, please check <https://careers.cargill.com>:



# Puzzle Cargill

The rules of **Sudoku** are simple: each row must have numbers 1-9, each column must have numbers 1-9, and each 3x3 box must have numbers 1-9.

|   |   |   |   |  |   |   |   |   |
|---|---|---|---|--|---|---|---|---|
| 8 |   |   |   |  | 9 |   | 7 |   |
| 7 |   | 9 | 1 |  |   | 5 |   |   |
|   | 1 |   | 7 |  |   | 6 |   | 9 |
|   |   | 6 | 8 |  |   | 3 | 9 | 4 |
|   | 9 |   | 6 |  | 3 |   | 5 |   |
| 2 | 3 | 7 |   |  | 4 | 1 |   |   |
| 6 |   | 3 |   |  | 8 |   | 1 |   |
|   |   | 1 |   |  | 7 | 9 |   | 3 |
|   | 4 |   | 5 |  |   |   |   | 7 |

**Solve the puzzle** and deposit your solution in one of our boxes at 46, 70A or 125 or send it to **macht@ugent.be** before the **11<sup>th</sup> of March** for a chance to win the awesome prize offered by **Cargill**! Good luck!

Name: \_\_\_\_\_

Email: \_\_\_\_\_

# Company of the month: Covestro



**Covestro** is a world-leading supplier of high-tech polymer materials: innovative, sustainable and diverse. In line with our vision “To make the world a brighter place and our recently launched vision ‘We will be Fully Circular’, we to push the boundaries of what is possible to solve the today’s and tomorrow’s world challenges. Where others ask ‘Why?’, we ask ‘Why not?’.

We help to make cars lighter so they save fuel. We empower wind turbines that make renewable energy. Our insulation systems protect buildings against the heat and cold to reduce energy consumption. And who knows... you will soon be sleeping on brand new Covestro-technology: a polyurethane mattress based on 20% CO<sub>2</sub>!

Since almost 60 years, Covestro has been an important producer of high quality materials in the port of Antwerp. We produce the high-tech plastic polycarbonate (Makrolon®) as well as aniline and polyether, both intermediates for polyurethanes. And the future looks promising! We are currently expanding our aniline capacity with a new production plant and are building an extra production line for a brand new polycarbonate grade. This is certainly where bright engineers can step into our story!

Covestro employs in Belgium about 900 colleagues, who all together every day try to make the world a brighter place!

**We are regularly looking for engineers!**

*Are you curious, courageous and colorful, just like us?*

Check out [www.covestro.com](http://www.covestro.com) / [www.covestro.com/career](http://www.covestro.com/career)  
or get in touch with us through [werken@covestro.com](mailto:werken@covestro.com)



# Puzzle Covestro

On first glance, this may look like a weird Sudoku, but these are called **KenKen** puzzles. The goal is to fill the grid with numbers, so that:

1. No number is repeated in each row or column.
2. In each cage marked by the thick lines, the numbers you enter in that cage must combine (in any order) to get the upper-left number using the upper-left math operation.

For example: In this cage, the upper-left number is 4, the upper-left math operation is +. So, the two numbers in that cage must **add to make 4**. You can put 1&3 or 3&1, but not 2&2 (because that will break Rule 1).

|    |    |        |
|----|----|--------|
| 5+ | 2- |        |
|    | 3+ |        |
| 4+ |    | 2<br>2 |

Use only numbers 1 to 3 in this 3x3 grid.

|    |    |    |    |
|----|----|----|----|
| 4+ | 1- |    | 6+ |
|    | 3- |    |    |
| 3+ |    | 1- |    |
| 2- |    | 4+ |    |

Use only numbers 1 to 4 in this 4x4 grid.

If you're stuck, just try a possible solution and see if it satisfies all the rules. I recommend that you use a pencil, because mistakes can easily happen! If you're still unsure about the rules, look for some easy KenKen puzzles online to get started. Good luck and have fun!

**Solve both puzzles** and deposit your solution in one of our boxes at 46, 70A or 125 or send it to [macht@ugent.be](mailto:macht@ugent.be) before the **11th of March** for a chance to win the awesome prize offered by **Covestro**! Good luck!

Name: \_\_\_\_\_

Email: \_\_\_\_\_

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