



2022-2023 Issue 5

MaChTazine

Materials Science &
Chemical Technology

MaChT Trip
22-25 March @
Düsseldorf

Introduction

Hello everyone,

We are already back with the fifth issue of the MaChTazine!

As you may have heard, MaChT is going on a **trip to Düsseldorf** this year. Registrations for this trip are currently closed as the trip sold out in 32 seconds!! Because of this awesome trip, this fifth issue of the MaChTazine will provide you with extra information about this years destination of the MaChT trip: Düsseldorf. For those who will not be joining us, these **tips and tricks** will still be useful for any future visit to this beautiful German city.

In this issue, some pictures are also included of our big MaChT Meets the Industry event. We would like to thank you all for being present because it was a major success!

As usual, we have prizes to win from our **Companies of the Month**. This month **INEOS, TotalEnergies, Deloitte and Evonik** are put in the spotlights. Don't forget to deposit your completed puzzles in one of our MaChT boxes for a chance to win a prize. Good luck!

Your MaChT Press—Arthur & Yana

Coming events

The next big event of MaChT is one in cooperation with the CMM or Center of Molecular Modeling. On the 13th of March, we are organizing a **quiz**. Registration for this quiz are now open so find three good friend and prepare for a night full of brain activity and fun!

The next event on the MaChT agenda is the **MaChT trip**. This is a four day experience with a combination of company visits and fun activities with the group. Registrations for this event are closed.

The next event we can already announce is the **Cocktail Night**. On the 29th of March, we welcome you all in the Delta for an amazing night with very cheap cocktails!

Like previous years, MaChT will cooperate with the other student organizations of the engineering degrees for the **Zwijnaardse feesten**. This event will take place on the 20th of April.

CMM quiz	13 March 2023
MaChT Trip	22-25 March 2023
Cocktail Night	29 March 2023
Zwijnaardse feesten	20 April 2023

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Next event



CMM Quiz



When? March 13th, at 19h00

Where? Sterre S9, Auditorium A3

What? Get ready for the annual CMM quiz with free croque monsieurs and amazing prizes!
This event is in Dutch!

Registrations:

macht.ugent.be



Tip and Tricks when visiting Düsseldorf



ALTSTADT

Düsseldorf's historic center is like heaven for shoppers during the day and a busy and lively entertainment center in the evening. On summer days, the narrow streets are sometimes impassable.

KUNSTSAMMLUNG K20 AND K21

With the two museums K20 and K21, Düsseldorf presents itself as a center of modern art. In K20 you will see works by artists from the 20th century, K21 shows works from the 1980s to today



ANDREASKIRCHE

The Andreaskirche is not the oldest church in Düsseldorf, but it is the most beautiful. This bright, baroque church is richly decorated with stucco and statues. There is also a beautiful mausoleum.

RATHAUS

The Rathaus on Marktplatz has been the meeting place for the Düsseldorf City Council for centuries. There is a guided tour only once a week (on Wednesdays). Among other things, you then visit the council chamber, the Jan-Wellem hall and the mayor's reception room.



NEANDERTHAL MUSEUM

Near Düsseldorf, the remains of prehistoric humans were found in 1856 in the Neanderthal. The museum shows lifelike how Neanderthals lived and worked. Highly recommended for young and old!



SCHLOSS BENRATH

Benrath hunting lodge is located south of Düsseldorf, right on the Rhine. The castle is especially famous for the huge garden surrounding it. The castle itself houses two museums: the Museum of Garden Arts and the Museum of Natural History.

DÜSSELDORFER SENFLADEN

Düsseldorf has a very nice old-fashioned mustard shop. By the way, it is not only a store, but also a small museum where you can learn all about the preparation of various types of mustard.

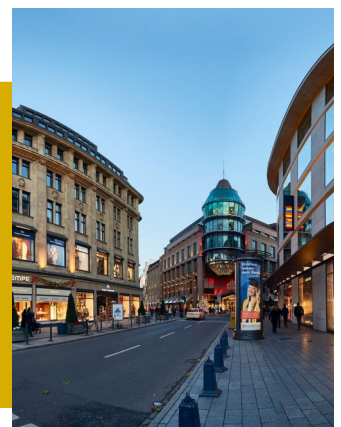


CHRISTMAS MARKET DÜSSELDORF

Düsseldorf has one of the largest Christmas markets in Germany and it attracts many visitors each year. The Christmas market spans two streets and four squares, which are divided into themes and filled with huts decorated in Christmas style.

SHOPPING IN DÜSSELDORF

Many visitors to Düsseldorf come there primarily for shopping. Therefore, the city has something for everyone: pure luxury on the Königsallee (also fun just to look at), large department stores on the Schadowstrasse and trendy boutiques and not-quite-ordinary stuff in the Altstadt.



MaChT Meets the Industry

A few weeks ago, you all got the chance to meet our sponsors during our annual MaChT Meets the Industry event. We hope you all enjoyed yourself and maybe even found an interesting company that offers summer internships or a future job.

We would like to thank you all again for being present and for making this a night to remember!





Ich liebe Düsseldorf!

Basic German in 10 minutes

Die Ordnungszahl von Eisen ist sechsundzwanzig.

Het atoomnummer van ijzer is zessentwintig.

Die Wasserstoffherzeugung ist ein Prozess, bei dem Kohlenwasserstoffe durch eine chemische Reaktion in Wasserstoffgas umgewandelt werden.

Waterstofproductie is een proces dat koolwaterstoffen via een chemische reactie omvormt tot waterstofgas.

Polyethylenterephthalat ist ein thermoplastischer Polyester.

Polyethyleentereftalaat is een thermoplastische polyester.

Wo kann ich den nächstgelegenen Steamcracker besuchen?

Waar kan ik de dichtstbijzijnde stoomkraker bezichtigen?

✓ Mention schnitzels
at least 5 times a
day

✓ Order 0.5l beers

✓ ...

LAUGHS

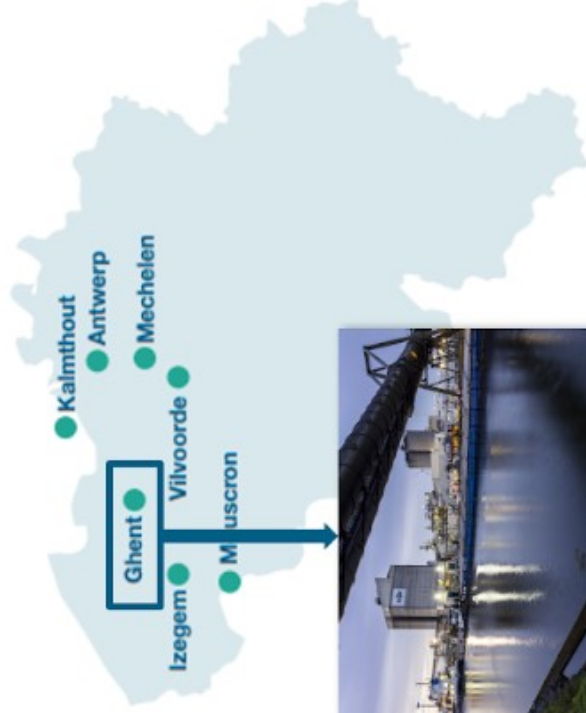


IN GERMAN

Visit Cargill Ghent on the 28th of April



Helping the world *thrive*



You have the opportunity to visit the Ghent site on the 28th of April (9-12h)



- Introduction Cargill Ghent
- Plant tour
- Open vacancies



Register via
<https://forms.gle/LQWDe796Fui7Vq929>



A CRUSH ON WASTE

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INEOS
GRENADIERS
CYCLING TEAM



RIDE FOR FUN!
RIDE FOR GOOD!
RIDE FOR GLORY!

VAN 22 MAART TOT 2 APRIL

Fiets mee met je eigen wielerploeg en schrijf je in voor 21 maart.

WIN

**VIP EXPERIENCE TIJDENS BENELUX TOUR
INEOS GRENADIERS WIELEROUTFIT**

Student economie
of wetenschappen?
Schrijf je ploeg in via
ineos-campus-cup.be
of scan deze code





INEOS CAMPUS CUP

Ons hart klopt voor chemie. Maar ook voor de koers. Daarom dagen wij vanuit INEOS en de INEOS Grenadiers jullie uit voor een fietschallenge tijdens het wielervoorjaar.

Verzamel je medestudenten economie en/of wetenschappen en vorm een ploeg van maximum 10 fietsers. Ga tussen 22 maart en 2 april samen op pad om Strava-kunstwerken te creëren en kilometers te malen.

Het is geen race: fun en creativiteit zijn minstens even belangrijk als sportieve prestaties! De winnende teams krijgen 500 euro om aan een goed doel naar keuze te schenken en verdienen een ticket voor de finaledag op 2 mei in Gent. Daar zullen de 20 beste teams het tegen elkaar opnemen en strijden voor de hoofdprijs

RIJ MEE IN DE FINALE EN BELEEF DE BENELUX TOUR ALS VIP

Op 2 mei nodigen we de deelnemende teams uit op het finale-event in het Wielercentrum Eddy Merckx te Gent. Onze collega's heten je welkom met een hapje en een drankje en vertellen je alles over werken bij INEOS.

Daarna is het tijd voor de finale: we gaan van start met een initiatie baanwielrennen. Nadien nemen de 20 beste teams het tegen elkaar én tegen INEOS-werknemers op in een wedstrijd waar je de snelste rondetijd moet neerzetten. Vervolgens organiseren we een korte quiz. Afsluiten doen we met een mini afterparty. De host van de avond is niemand minder dan Ruben Van Gucht. Uiteraard sturen ook de INEOS Grenadiers een afgevaardigde om prijzen uit te reiken.

Company of the Month: INEOS



INEOS is een jong en toonaangevend chemisch bedrijf met een wereldwijde omzet van 60 miljard dollar. Wereldwijd hebben we 194 sites en zijn we actief in 29 landen.

In België telt INEOS vandaag 12 productie- en R&D-sites en 3.050 werknemers.

De focus van de productie in België ligt op intermediaire producten, kunststoffen en specialiteiten. Onze producten maken een aanzienlijk verschil in het redden van levens, verbeteren van de gezondheid en het verbeteren van levensnormen voor mensen over heel de wereld.

INEOS heeft een verfrissende no-nonsense werkcultuur, die altijd openstaat voor nieuwe ideeën. We hebben een vlakke hiërarchische structuur en hierdoor ook korte beslissingslijnen.

Ingenieurs vormen het hart van ons bedrijf. We hebben mogelijkheden binnen verschillende disciplines en kunnen iedereen een boeiende carrière bieden. Of je nu een ingenieur bent die zich wil specialiseren in een bepaalde technische discipline, of die managementverantwoordelijkheid wil nemen, we horen graag van je.

GRADUATE ENGINEERING PROGRAMME

Het graduate programma is een ondersteunend programma voor al onze ingenieurs. We bieden een job met verantwoordelijkheden vanaf dag één en we geven je de mogelijkheden om jezelf snel te ontwikkelen.

Meer informatie kan u op onze website terugvinden: <https://www.ineos.com/careers/graduates/>

Je komt in het graduate programma door te solliciteren op een vacature voor één van onze vestigingen. Is er op dit moment geen passende vacature voor jou, dan kun je spontaan solliciteren op deze vacature en kom je in onze wervingsreserve. Je zal op de hoogte gehouden worden van opportuniteiten in jouw richting.



Puzzle INEOS

This puzzle is like a regular **sudoku**, but with an extra rule!

All the normal sudoku rules still apply, but the coloured fields also need to be filled with numbers from 1-9.

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

Tear or cut this page out and deposit it in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to **macht@ugent.be** by the **23th of March** for a chance to win the awesome prize offered by **INEOS**! Good luck!

Name: _____

Email: _____

Company of the Month: TotalEnergies

TotalEnergies is a global multi-energy production and supply company : oil and bio-fuels, natural gas and green gas, renewables and electricity.

Our objectives :

The company has set itself the target of increasing its electricity sales by 5% to 15% by 2030.

In the world's top 5 renewables by 2030, \$60 billion of renewable projects to be financed over 10 years.

The company plans to increase its gross Gigawatt capacity in renewables from 7 to 100 by 2030.

TotalEnergies is developing a portfolio of renewable energy and electricity activities that should represent 40% of its business mix by 2050.

Our values :

SAFETY

At TotalEnergies, the safety of each individual is the safety of all. We are therefore determined to be recognized as the safety benchmark for our industry.

RESPECT FOR OTHERS

We give concrete expression to this value on a daily basis through the quality of our "living together" and our attentiveness to others; through our absolute respect for human rights; through our pursuit of unfailing integrity; through the promotion of diversity; through the attention we pay to social dialogue within our Company.

PIONEERING SPIRIT

The pioneering spirit, it is thanks to this pioneering spirit that we have built and developed strong positions throughout the world. And thus, we have become a major player in the energy sector.

STRENGTH OF SOLIDARITY

Strength of solidarity characterises our way of interacting. It translates into a team spirit that allows us to face the unknown together, with confidence.

TASTE FOR PERFORMANCE

It is thanks to this culture of performance, combined with our high level of expertise, that we have become a global industry leader. And it will enable us, like our other values, to achieve our ambition of becoming the responsible energy major.

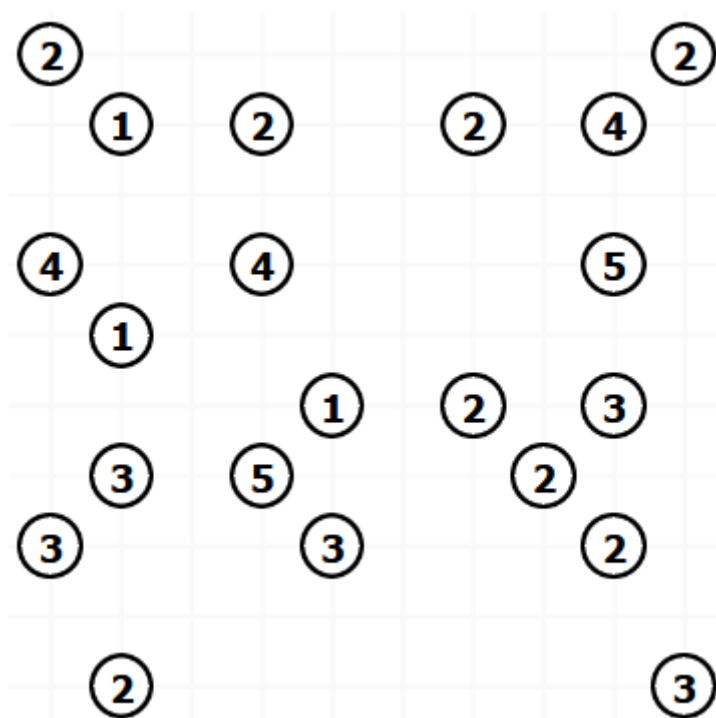


TotalEnergies

Puzzle TotalEnergies

This puzzle is **Hashi**. Last time we did one of these puzzles we got some... creative answers since one of the rules was forgotten, so this time with the full rules:

- Each circle needs to be connected by a straight line with another circle.
- Only use horizontal or vertical lines
- The total number of connections corresponds with the number in the circle.
- Between the same 2 circles, there can be 1, 2 or no connections.
- In the end, all circles should be connected to each other and the lines cannot cross.



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Name: _____

Email: _____

Bedrijf van de maand: Deloitte

Do you want to work for a simply irresistible organisation? Where you can be your authentic self and share exciting experiences with a diverse community of passionate people? As one of the largest professional services firms

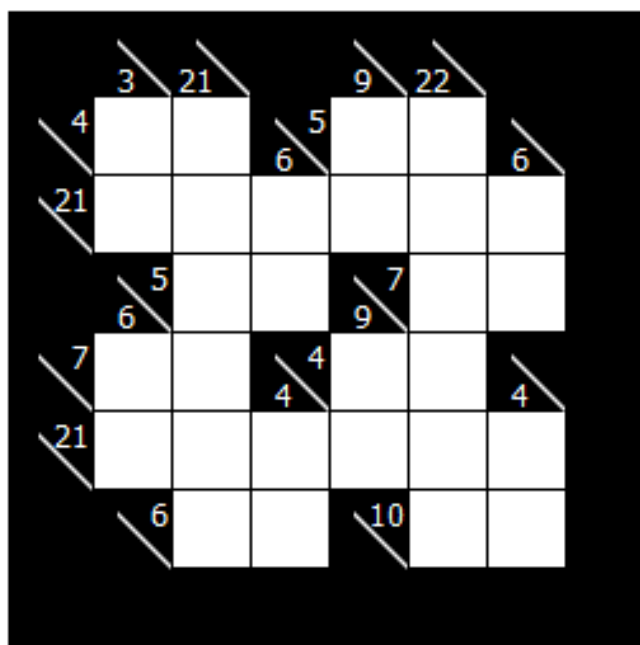
in the world, with more than 6000 employees in 10 locations across Belgium, Deloitte offers everyone endless opportunities. No matter your field of studies, we give you the support you need to find your fit, develop your career, learn every step of the way, prioritise your well-being, enjoy flexibility, and do meaningful work. We select on values and hire for potential, regardless of your background.

Deloitte.

Puzzle Deloitte

The next puzzle is **Kakuro**.

- **The rules** of Kakuro are simple:
- Each cell can contain numbers from 1 through 9
- The clues in the black cells tells the sum of the numbers next to that clue. (on the right or down)
- The numbers in consecutive white cells must be unique.



Tear or cut this page out and deposit it in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to macht@ugent.be by the **23th of March** for a chance to win the awesome prize offered by **Deloitte**! Good luck!

Name: _____

Email: _____

Company of the month: Evonik



Evonik is one of the world's leading specialty chemicals companies.

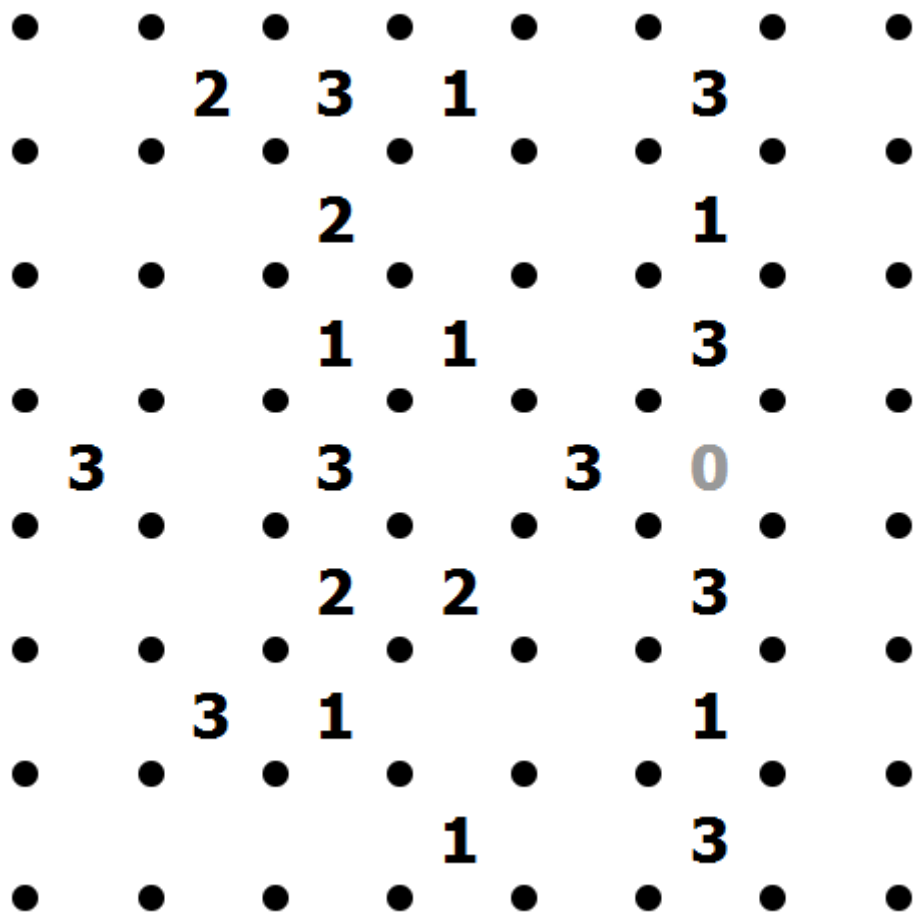
We may not manufacture tires, mattresses, medications, or animal feeds, but Evonik is part of all of those products –and many more. While we often contribute only small amounts of material, those contributions are precisely what make the difference. That's because Evonik products make tires fuel-efficient, mattresses more elastic, medications more effective, and animal feeds healthier. That's what specialty chemicals are all about. And when it comes to specialty chemicals, we're among the best in the world.

Evonik is one of the world leaders in specialty chemicals. The company is active in more than 100 countries around the world and generated sales of €15 billion and an operating profit (adjusted EBITDA) of €2.38 billion in 2021. Evonik goes far beyond chemistry to create innovative, profitable and sustainable solutions for customers. More than 33,000 employees work together for a common purpose: We want to improve life, today and tomorrow.

The production plant in Antwerp is the largest foreign site of Evonik Industries. On our 109-hectare plant site there are 11 production units, each with a specific operation and its own end products. It is also home to the world's largest unit for the production of methionine, an essential amino acid.

Puzzle Evonik

This last puzzle is commonly called **Slither Link**. The objective is to draw lines between the dots (horizontal or vertical) in order to create **a single loop** without any branches or inter-connections. The numbers show how many of its sides have lines. Make sure to mark which dots can't be connected!



Tear or cut this page out and deposit it in one of our boxes at buildings 46, 70A or 125 or **send a picture of your solution** to macht@ugent.be by the **23th of March** for a chance to win the awesome prize offered by **Evonik**! Good luck!

Name: _____

Email: _____

Spon- sors



AD Aluminium Duffel



EASTMAN

ExxonMobil

INEOS

Deloitte.



Air Liquide



TotalEnergies



Progress beyond

V O L V O

