



2022-2023 Issue 4

MaChTazine

Materials Science &
Chemical Technology

**MaChT Meets
the Industry
Februari 22nd
@ Kinepolis**

Introduction

Hello everyone,

We hope you all enjoyed the break after yet another long exam period.

This fourth issue of the MaChTazine is focused all around our largest event, our annual New Year's reception or **MaChT Meets the Industry**. During this event we invite our sponsors to **introduce their companies** and we provide the opportunity for the students to **speed date** with the representatives of each of these companies. It will thus be the perfect chance for you to socialize, network and maybe even to find your dream job or internship.

The event will take place on the **22nd of February** in **Kinepolis Ghent**. Don't forget to register via Launch if you want to attend. More information about the registrations can be found on the poster or on the Facebook event.

In this issue we will provide tips to improve your CV and a series of questions you can prepare for the speed dates at MaChT Meets the Industry.

As usual, we have prizes to win from our **Companies of the Month**. This month **Beaulieu International Groups, BASF, Dow and Yara** 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 first event of the new semester is **MaChT Meets the Industry**. The event will take place on the 22nd of February, in Kinepolis Ghent.

We can also already announce the **CMM quiz**. This quiz is a cooperation between the Center of Molecular Modeling and MaChT. The event will take place on the 13th of March.

The next event on the MaChT agenda is the **MaChT trip**. This will be a four day experience with a combination of company visits and fun activities with the group.

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

MaChT Meets the Industry	22 February 2023
CMM quiz	13 March 2023
MaChT Trip	22-25 March 2023
Zwijnaardse feesten	20 April 2023

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Next event



MaChT Meets the Industry

What? The perfect opportunity to speed date with companies!

When? February 22nd 2023, 18h00 - 22h30

Where? Kinepolis Ghent, Ter Platen 12 - 9000 Ghent

Registrations:

Step 1: Create an account on Launch
(See QR code)

Step 2: Register for the event
(Via your account)



10 TIPS FOR YOUR CV

1

Use a correct lay-out

Templates can easily be found online or even from Word

2

Keep it short and clear

3

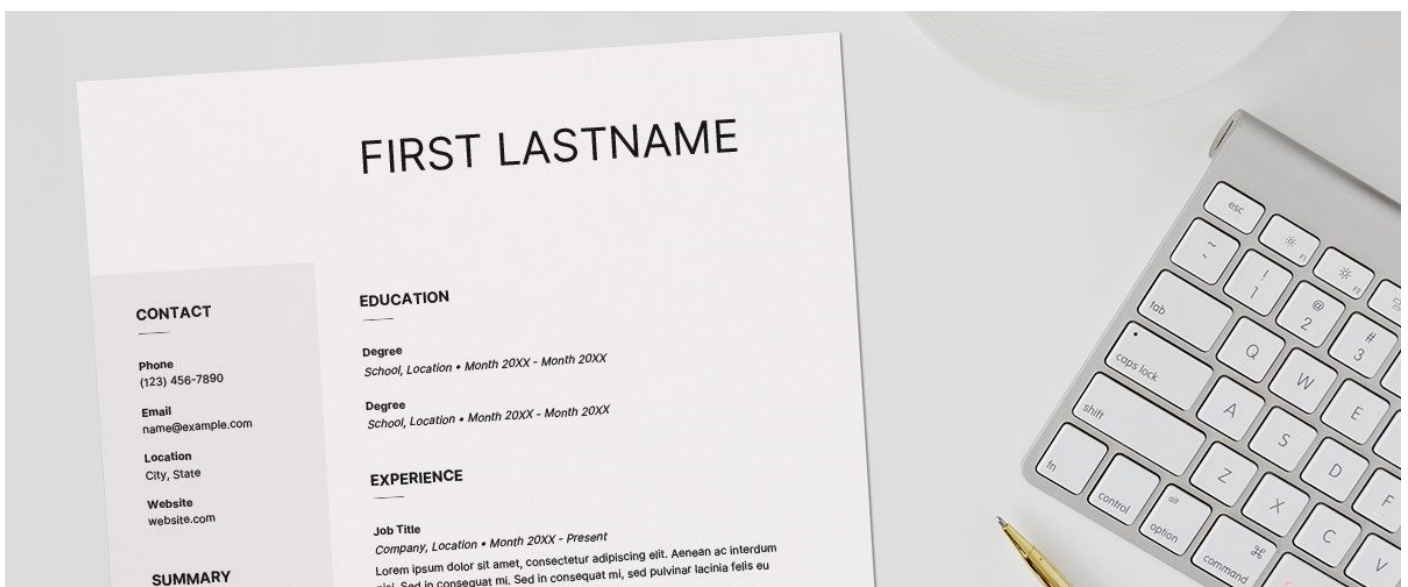
Make sure your CV is easy to read and scan through

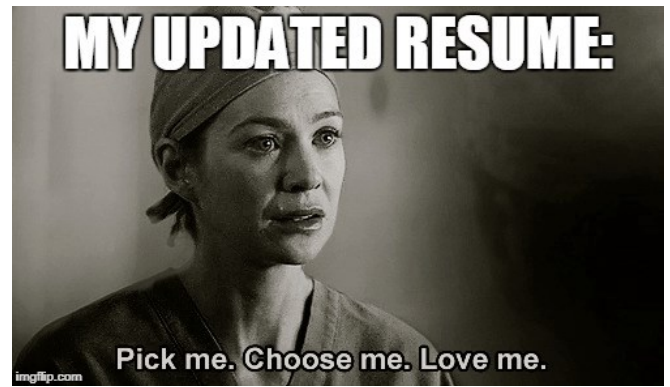
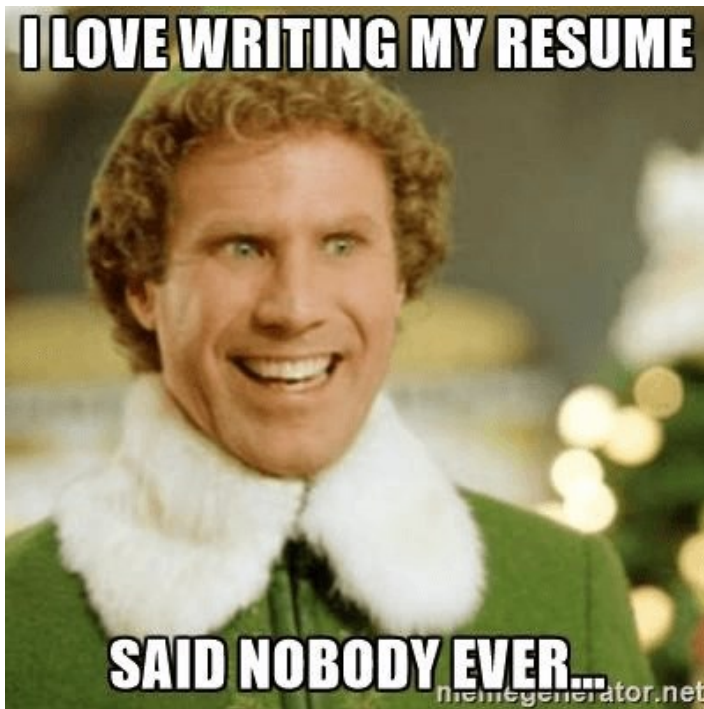
4

Keep in mind the specific job offer you are applying for while putting together your CV

5

Keep the personal details relevant





Be proud of yourself and your accomplishments
Sell yourself to the company!

6

7

If you choose to add a picture, make sure it is professional and gives the right impression

8

Don't make it too boring!

9

Add your contact information: email address, phone number, LinkedIn profile...
Don't use your UGhent email!

10

Don't forget to check for spelling mistakes and ask someone to proofread your CV

Questions to ask during MaChT Meets the Industry

Ask about a particular role:

What does a person with this function do on a day to day basis?

What are typical responsibilities I would have in this function?

Ask about the hiring process:

Can you tell me something more about the different stages in the hiring process?

Ask about growth and development:

How does the company support its employees as they look to grow?

How does the company work to upskill and reskill its employees?

Ask about their experience:

What do you really enjoy about your role in the company?

What are some of the challenges you've faced in your function?

Ask about the company's products, services or recent news:

I recently read an article about... Can you tell me more about this?

Ask about the work culture:

What does the communication look like in your company?

Do people hang out outside of work or on a regular basis?

Source: <https://www.themuse.com/advice/questions-to-ask-at-career-fairs>

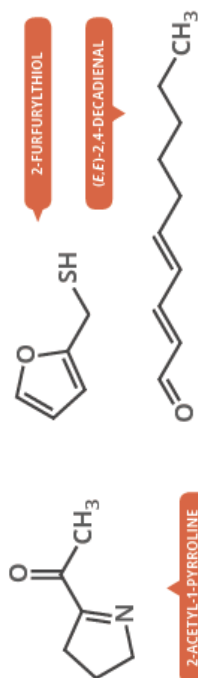
Ask how to stay in touch:

What is the best way to stay in touch with you?

What would be a great next step to take after meeting you here?

THE CHEMISTRY OF POPCORN

POPCORN FLAVOUR & AROMA COMPOUNDS



Many aroma compounds are given off by freshly prepared popcorn. Some of the most significant are 2-acetyl-1-pyrroline (which is a contributor to the roasty, popcorn-like aroma), (E,E)-2,4-decadienal (which has a fatty, fried aroma) and 2-furfurylthiol (which in isolation has a roasted coffee-like aroma). A range of other pyrazine, pyridine, and phenol compounds also contribute to flavour and aroma.



Flavourings added to popcorn can also contribute to the aroma. For example, butter-flavoured popcorn can include the compounds 2,3-butanedione (diacetyl) or 2,3-pentanedione. These compounds can cause respiratory problems in workers that inhale them while manufacturing the flavourings – the condition they can cause is known as 'popcorn lung'.



WHAT MAKES POPCORN POP?



The content of popcorn kernels is about 14% water. When the kernels are heated, this turns into water vapour at water's boiling point. However, it is trapped by the kernel's shell until the pressure builds up enough to crack through. The 'pop' is due to the escape of this pressurised water vapour, rather than the cracking of the kernel's shell. The molten starch bursts through the shell then rapidly cools, giving popcorn its fluffy appearance.



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Ghent at the movies

The issue of the MaChTazine is focused all around our largest event, MaChT Meets the Industry. As the event will take place in Kinepolis Ghent this year, we would like to provide some movie inspired tips. On the next pages you can find some recommendations for cinemas in Ghent and praised movies.

Sphinx



In the city center of Ghent, the intimate movie theater of the Sphinx is found.

The historic building has provided movie screenings ever since 1912.

A movie night at the Sphinx can even be combined with a visit at their local cafe.

Studio Skoop



Every week the program of the Studio Skoop is adjusted based on the new film offer and the number of visitors. They offer European films, world cinema (Asia, South America...), as well as independent American films. They even give local directors a chance to show their films to a wider audience.

Kinepolis Ghent

Decascoop, as Kinepolis Ghent used to be called, saw the light in 1981 and became revolutionary at world level. The cinema often takes the lead in numerous innovations at



visual, sound and conceptual level.

Kinepolis Gent is a partner of the Film Fest Gent and plays a vital role in Ghent city, student life and the Ghent economy.

KASKcinema

Since 2011 the Royal Academy Fine Arts houses its own cinema in Ghent. The cinema situated on the historic Bijloke site is not only aimed at art students, but also at other film enthusiasts.

KASKcinema is a screening platform for films that fall outside the regular circuit. Examples are festival hits that did not find traditional distribution in Belgium, classics, cult films, documentaries, animation, audiovisual experiments and short films.

KASKcinema = films for daredevils

Avatar



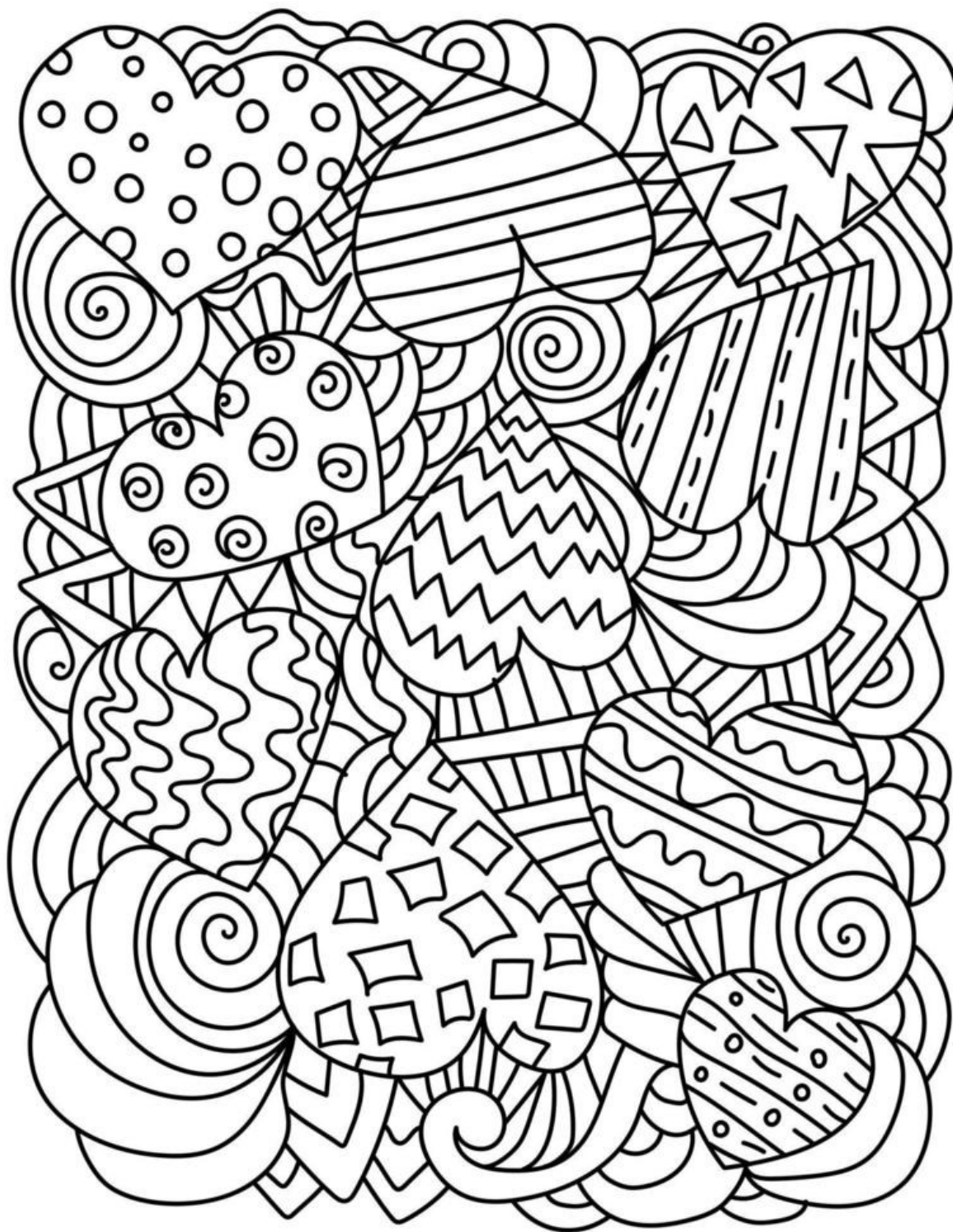
Close



Tár



Colouring for Valentine's Day



Date ideas for Valentine's Day

Go watch a
movie

Set up a
dubble date

Go on a
hike

Visit a
museum

Go
shopping

Cook
together

Go on a
bike ride

Take an art
class

Have a spa
day

Enjoy a
boat ride

Invite some
friends

Play board
games

Take a
dance class

Stargaze
together

Company of the Month: B.I.G.

Shaping sustainable living, together

You think you never get in touch with the solutions of Beaulieu International Group? Well, think again! Because B.I.G. is always by your side! No cold feet thanks to laminate flooring in your bedroom? Playing Padel on artificial grass? Showering in a vinyl tiled bathroom? Or plopping into the sofa with soft fabric upholstery after a hard day at college? Well, B.I.G. is at the heart of all these great solutions!

Wide spectrum

In this constantly changing world, B.I.G. is always looking for talent to work together to tackle the many challenges that lie ahead. And the opportunities within B.I.G. are far-reaching. "People with a background as civil engineers in materials science and chemical engineering can get into a broad spectrum of jobs within B.I.G.," says Pol Lombaert, Innovation Director. "Typically, we see young potentials with this specific background start working as Innovation Project Engineer or Product Development Engineer, so that they immediately work on our most impactful projects."

Getting opportunities, seizing opportunities

B.I.G.'s DNA stands for believing in employees' talents from the start of their careers. "Young engineers are given responsibility very quickly, but always within certain limits with built-in safety," Pol Lombaert continues. B.I.G. offers many opportunities, but as an employee it is also important to seize those opportunities with both hands. "Because of the broad orientation at the start of their career, in which they get to know the organization well, young potentials can assess for themselves where their interests lie. It is hard to predict to which positions engineers can grow. In fact, it could be to any position in our organization. The path taken by people with an engineering background shows that everyone can find their own route within B.I.G., both nationally or internationally", concludes Pol Lombaert.



Puzzle B.I.G.

Complete this **binary puzzle** by filling in zeros and ones in each empty cell. There may not be more than two of the same digits directly next to or directly below each other. Each row and each column is unique and contains an equal amount of zeros and ones.

1											1
0			1								1
				0		1		0			
		1	1						1	1	
1					1						
	0		1				0		0		1
	0			0		1					
0											
	1			1				0			0
			0				0				
							0	0		0	
	0	0		1					0		

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 **9th of March** for a chance to win the awesome prize offered by **Beaulieu International Group**! Good luck!

Name: _____

Email: _____

Company of the Month: BASF



Van Burgie tot BASF'er!



Dorien Zeebroek
24 jaar
Sustainable Materials

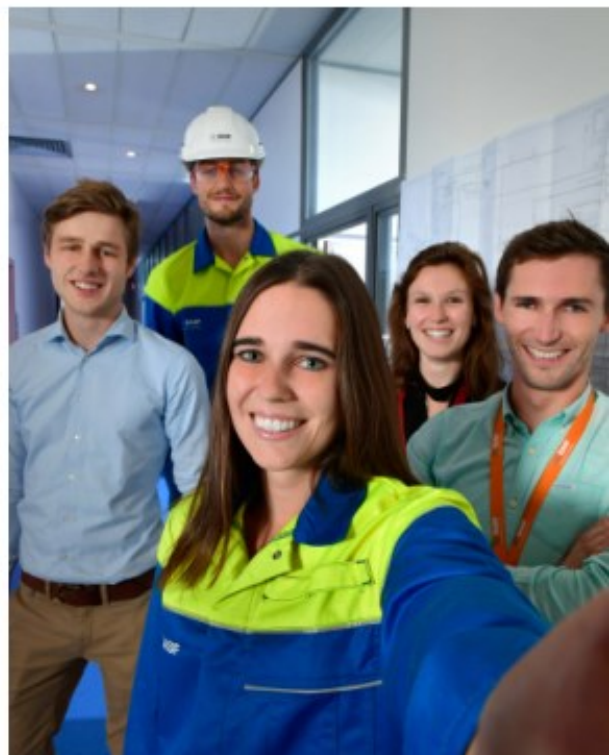
Als student Chemische Technologie en Materiaalkunde heb ik lang getwijfeld welke van de 2 masters ik nu zou kiezen. Hoewel ik voor materiaalkunde heb gekozen, bleef ik de chemie toch wel een beetje missen. Een job waarin ik beiden kan combineren leek me daarom ideaal en dat kon bij BASF. Dat ze via het Young Graduates Traject nog eens ruimte maken om jezelf volledig te ontwikkelen en helemaal in je functie te groeien was alleen maar een grote troef!

In september '21 ben ik gestart als ingenieur bij de dienst Kwaliteit, Inspectie en Materialen. Samen met mijn collega's ben ik verantwoordelijk voor o.a. het behandelen van de schadegevallen op de site. We achterhalen de oorzaak ervan en met onze aanbevelingen kunnen dan weer verdere problemen in de toekomst vermeden worden.

Wat werken bij BASF voor mij zo fijn maakt is dat elke dag verschillend is. De job is zowel technisch als sociaal, omdat je steeds nauw dient samen te werken met de verschillende plants. Aangezien BASF zo een groot bedrijf is in binnen- en buitenland zijn er oneindig veel mogelijkheden naar de toekomst toe. Hierdoor kan je jezelf volledig ontplooiën!

Ook zin gekregen in een carrière bij
BASF?

Laat van je horen en neem
een kijkje op onze website
werkenbijbasf.be
of solliciteer rechtstreeks via de
QR-code voor ons Young
Graduates programma!



Puzzle BASF

Element word search! Find the 25 elements in the grid.

N	E	G	O	R	D	Y	H	G	O	L	D	L	S	W	G	S
N	D	C	I	L	E	A	D	X	E	N	O	N	H	E	M	N
E	S	N	L	C	N	B	E	R	K	E	L	I	U	M	U	H
N	O	B	E	L	I	U	M	P	Q	S	E	N	H	Y	I	G
I	N	O	S	A	M	A	R	I	U	M	E	M	I	G	N	E
T	H	E	Z	H	A	E	M	M	O	A	Y	F	J	T	R	R
A	O	I	P	N	H	M	N	U	U	X	N	H	M	C	O	M
T	L	O	E	T	C	L	U	D	I	I	Y	S	P	U	F	A
S	M	N	H	S	U	N	M	I	E	P	D	G	U	P	I	N
A	I	E	E	J	L	N	O	U	R	L	O	A	E	D	L	I
M	U	I	R	O	H	T	I	D	I	O	E	R	L	N	A	U
Y	M	A	J	B	T	A	H	U	A	M	M	V	U	A	C	M
N	F	L	E	R	O	V	I	U	M	R	R	R	I	E	P	L
N	E	O	D	Y	M	I	U	M	B	J	J	E	E	U	F	C
P	D	D	X	W	R	N	C	U	R	I	U	M	F	V	M	M
D	O	R	K	V	N	M	U	I	N	I	E	T	S	N	I	E
N	A	P	D	A	V	F	M	U	N	I	T	A	L	P	N	L

Samarium	Neodymium	Paladium	Platinum	Gold
Germanium	Radon	LeadXenon	Tin	Europium
Thorium	Neptunium	Curium	Berkelium	Californium
Einsteinium	Fermium	Nobelium	Mendelevium	Holmium
Astatine	Livermorium	Flerovium	oxygen	hydrogen

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 **9th of March** for a chance to win the awesome prize offered by **BASF**! Good luck!

Name: _____

Email: _____

Company of the Month: Dow



Dow Chemical is a global leader with technology-based materials, ingredients and solutions that help transform industries and everyday life. Our employees apply diverse science and expertise to help customers advance their best ideas and deliver essential innovations in key markets including electronics, transportation, building and construction, health and wellness, food and worker safety.

Dow Benelux, with its largest site (>2000 employees) located in Terneuzen, intends to form a strong and sustainable alliance with the University of Ghent. The Chemical Company wants to trigger ambitious and open-minded young engineers who are eager to learn more from our Dow family, which strives for diversity and inclusion, innovation and success. Try to explore Dow Benelux; we hope to see you soon!

More information (Dutch): <http://nl.dow.com>



Puzzle Dow

The next puzzle is a simple **Sudoku**.

Each row, column and square (9 spaces each) needs to be filled out with the numbers 1-9, without repeating any numbers within the row, column or square.

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

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 **9th of March** for a chance to win the awesome prize offered by **Dow!** Good luck!

Name: _____

Email: _____

Company of the Month: Yara



Knowledge grows

Yara is een Noors bedrijf dat in 1905 is opgericht. De vestiging in Sluiskil is sinds 1929 gelegen aan het kanaal van Gent naar Terneuzen, een belangrijke doorgang aan diep vaarwater die is verbonden via de Westerschelde met de Noordzee en aansluitingen naar de belangrijke Europese rivieren en kanalen. Yara Sluiskil is vanuit Gent makkelijk te bereiken. In Sluiskil staan de grootste en meest efficiënte ammoniak-, salpeterzuur en nitraatfabrieken van Yara en van Noordwest-Europa.

Yara Sluiskil is de grootste productievestiging van het Noorse bedrijf Yara International dat wereldwijd in 52 landen vestigingen heeft. Yara Sluiskil maakt stikstofhoudende kunstmest en industriële chemicaliën, zoals Air1 en NOxCare waarmee schadelijke stikstofoxiden (NOx) kan worden afgevangen. Ook produceert Yara Sluiskil CO₂ voor de bubbels in bijvoorbeeld bier, of levering van CO₂ als groeistof in de glastuinbouw.

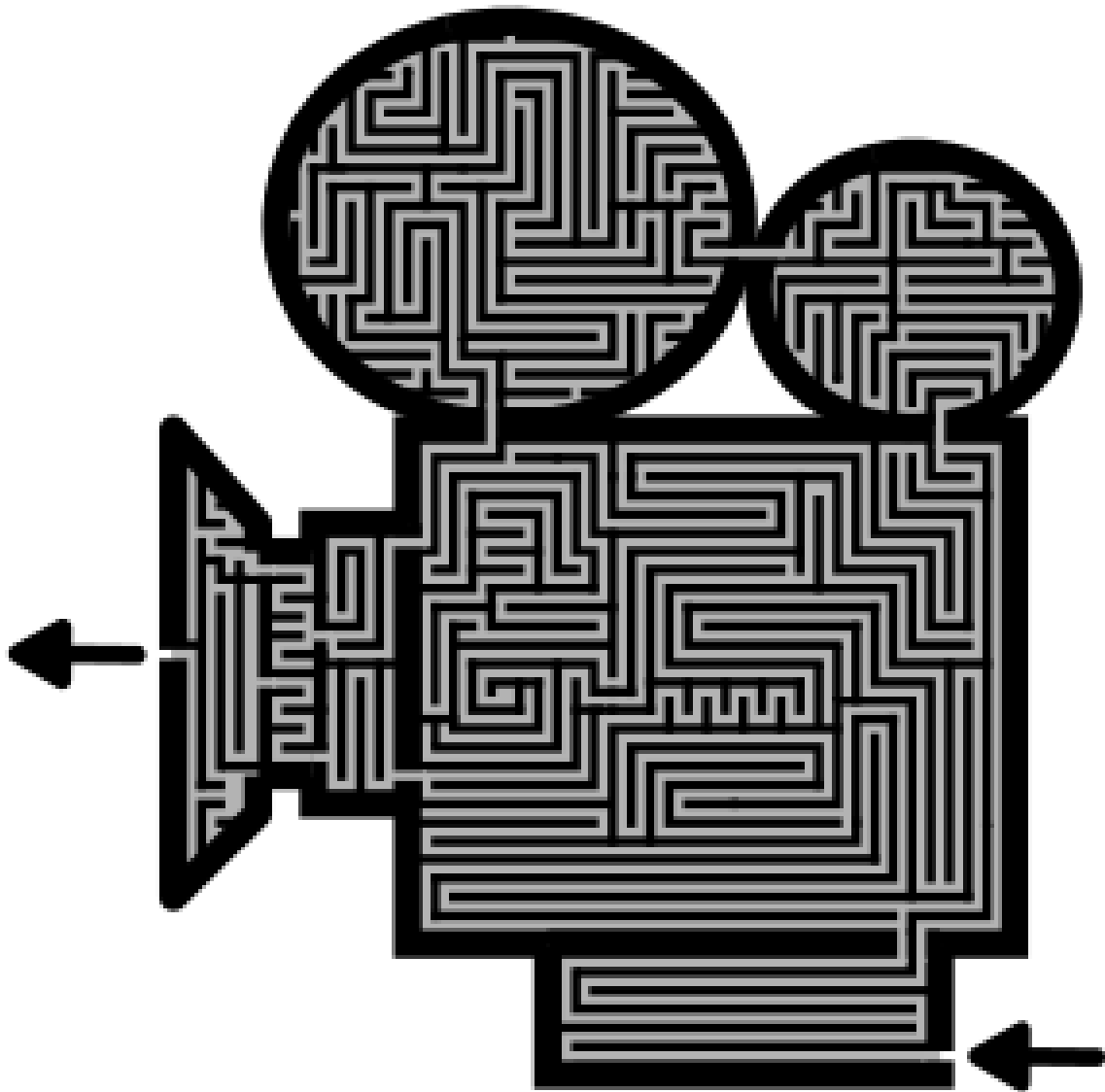
De producten van Yara dragen bij aan een duurzame landbouw met voldoende gezond en veilig voedsel om de groeiende wereldbevolking te kunnen blijven voeden. Onze industriële producten helpen de luchtkwaliteit te verbeteren en vormen een oplossing voor reductie van broeikasgassen in verschillende sectoren.

Yara is volop in ontwikkeling en dit geldt ook voor de medewerkers. Werken bij Yara betekent werken in gemotiveerde en ervaren teams waar opleiding centraal staat en je kansen krijgt om te groeien. Jouw groei begint bij Yara!

More information: <https://www.werkenbijyara.nl/>

Puzzle Yara

This last puzzle is again in theme of our MaChT Meets the Industry event. Solve this **maze** to win a prize from Yara.



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 **9th of March** for a chance to win the awesome prize offered by **Yara**! Good luck!

Name: _____

Email: _____

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Progress beyond



V O L V O

