

Wuorikautiset 1/2023

ISW
Helsinki
2023



The Editorial

Good morning everyone and welcome to ISW Helsinki 2023! This year we are going up north, where we'll hopefully be able to see some cute reindeer, students from other universities, and big holes on the ground.

You are currently reading Wuorikautiset, the guild's magazine. This paper will give you something to do when you're tired of the person sitting next to you. It will also introduce you to teekkaris' great sense of humour.

To survive this week, I recommend to try and sleep on the bus, since the time to sleep during the nights is quite short (thank you Arttu). I also suggest you to go to the sauna as often as possible, for you to feel warm at least some time during this week. Drinking can also help you feel warm so I recommend that too.

Finnish people like their own space, so getting us sitting in a bus this close to each other for a whole week must mean this trip is very exceptional. I hope you enjoy it!

Cheers,
Tessa Finnholm
The Editor

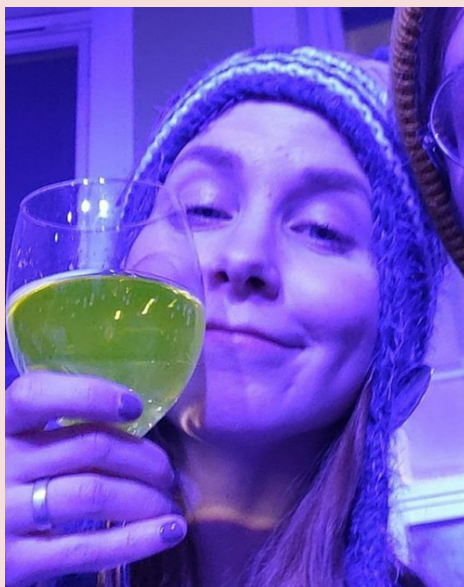


Table of contents

- 1 - The Editorial
- 2 - Table of contents
- 3 - The board of our guild
- 6 - The Chairman's greetings
- 7 - Fellow travellers
- 8 - Program
- 9 - Company introductions
- 11 - Dictionary
- 13 - ISW do's and don'ts
- 15 - Finnish games
- 16 - Finnish drinks
- 17 - Sauna
- 19 - Songbook
- 21 - Something to do
- 24 - ISW Bingo
- 25 - Miners' horoscope

Publisher:
Wuorikautiset
Vuorimieskilta ry
Kemistintie 1 D 2
02150 Espoo
Printed:
Painokiila Oy



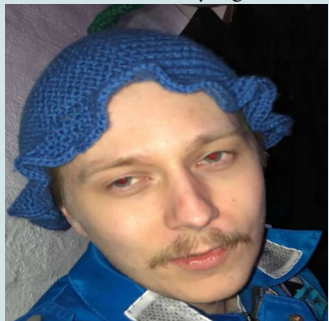
Metallinjalostajat

Thanks to:
Jussi Anttila
Metallinjalostajat ry
SSAB
Boliden
Agnico Eagle
Outokumpu

The board of our guild

Introducing the board by letting them answer to some very important questions. Some of the board members have more to say than others, but no worries, EVERY SINGLE ONE of them is on this bus, so you can ask more clarifying questions from the ones saying basically nothing.

1. Name and role in the board
2. Academic age
3. Major
4. Condense yourself
5. Looking forward to in ISW
6. Not looking forward to in ISW



1. Lassi Pekkanen, The Chairman
2. 5
3. Sustainable Metals Processing
4. I always drink Koskenkorva and orange juice. I also like sports and cooking.
5. Company excursions, parties and GMB!
6. Being tired 24/7



1. Teemu Vuorela, The Secretary
2. 3
3. Chemistry and Material science
4. Can be found almost anywhere
5. Excursions and Jalluravit
6. Waking up in the morning



1. Maija Filippovits, The Treasurer
2. 3
3. Biosystems and Biomaterials Engineering
4. To function, I need at least 9 hours of sleep. I get angry when I'm hungry, but otherwise I'm quite nice. And I'm also the mom of a small dog Nala!
5. Traveling to Lapland for the first time. And also fun bus trips, learning something new and perhaps memorable experiences!
6. Short nights sleep, tiredness and homesickness



1. Mariel Mylly, The Host
2. 3
3. Bioproducts (why am I even here tho)
4. The one who is never quiet or late
5. Everything except early mornings
6. Early mornings



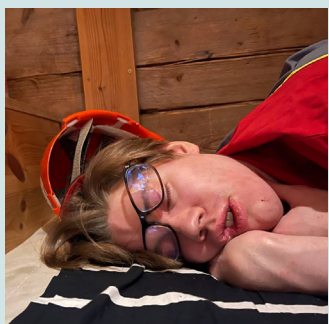
1. Mimi Tran, The Hostess
2. In Aalto 3 (overall 7)
3. Bioproducts, starting my master's in Fiber and Polymer Engineering
4. Small and peppery, never on time
5. Nice Telegram stickers of the sitting board '23
6. Early mornings



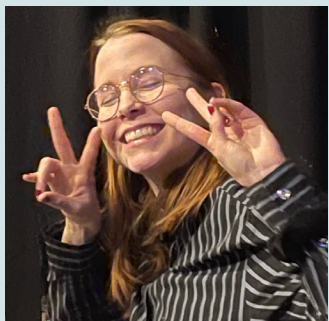
1. Claus Enckell, The Head of International and Masters' Affairs
2. 2
3. Chemistry and materials science
4. Easily approachable
5. Seeing some of the processes in different environments. I'm also very excited for a trip together as a group and hope to make unique memories that we'll all remember for years to come.
6. I'm not the fondest of traveling long distances via bus, I'd rather drive myself or travel by train/ plane. Therefore, I hope that the time spent traveling won't feel like an eternity.



1. Jonna Piironen, The Head of Study Affairs
2. 4
3. Sustainable Metals Processing
4. Someone who enjoys coding and mathematics (or as my friends would say; crazy)
5. Seeing the open pit!
6. Piss on the floor or walls



1. Arttu Saikkonen, The Excursion Master
2. 5
3. Sustainable Metals Processing
4. I play video games (almost Elden Lord) and I used to go to the gym. In addition, I grind, in Finnish aka. Amatimies
5. Good times and priceless moments in the wild Lapland. I'm also very excited to get to visit various interesting mining and metals refining companies that have some cool operations going on!
6. We run into polar bears and wolfs, and they eat us during the trip



1. Tessa Finnholm, The Chief Editor
2. 4
3. Sustainable Metals Processing
4. I collect nice rocks and hate pickles with a passion
5. Stories and gossips to write in the future Wuori-kautiset
6. The bus toilet not working

The Chairman's greetings

Glück auf!

Welcome to ISW Helsinki 2023! My name is Lassi Pekkanen and I am the Chairman of the board in Vuorimieskilta. This is my fifth year at Aalto University and my first year in Metallurgy master's studies. My absolute favorite drink is extremely dry white wine, or as some of you know it Koskenkorva. I'm usually the last person to go to sleep and the last person to wake up.

This is my third ISW Helsinki and these trips have been the highlight of my studies. Last year I got the honor to organize this trip and it was very stressful, so good luck to Arttu :D During this week we will travel to the famous jämkhä (Lapland). This week is a great opportunity to get to know Finnish people and nature. The week will be tough for everyone, but I promise it will be worth it.

I would also like to thank all the companies SSAB, Boliden Kevitsa, Agnico Eagle and Outokumpu for organizing the excursions! Also thank you Oulu's Processguild and Tampere's Material Engineering Guild for the accommodation.

Don't hesitate to ask the board for any advice and remember the more you drink, the less you have to carry back to the bus!

Enjoy your Trip!
Lassi Pekkanen
Chairman of the board



Fellow travellers

The Board:

Lassi Pekkanen

Teemu Vuorela

Maija Filippovits

Mariel Mylly

Mimi Tran

Jonna Piironen

Claus Enckell

Arttu Saikkonen

Tessa Finnholm

Emma Rista

Juha Malinen

Sebastian Nikolov

Helena Angerla

Reetta Penttinen

Tinja Aromaa

Onni Poikkeus

Fabiola Lasar

Jussi Anttila

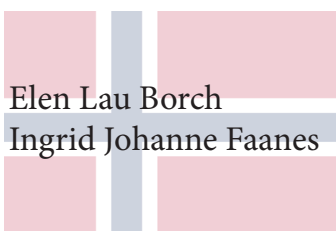
Tiitus Toivari

Valtteri Vaarno

Juho Hentman

Ossi Ruokokoski

Leo Müller



Elen Lau Borch

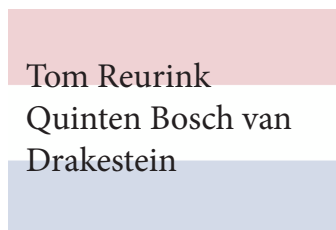
Ingrid Johanne Faanes



Jérôme Russo

Emilien Flas

Alexandre Flas



Tom Reurink

Quinten Bosch van

Drakestein



Samuel Phillips

Ollie Howe

Save these numbers, you might need them (for when you get lost, run into a polar bear, or just desperately need some company)!

Arttu Saikkonen, +358 50 322 6919

Lassi Pekkanen, +358 50 529 0505

Teemu Vuorela, +358 45 204 1199

Maija Filippovits, +358 50 349 9970

Mariel Mylly, +358 50 077 0792

Mimi Tran, +358 50 911 1328

Jonna Piironen, +358 44 213 3866

Claus Enckell, +358 40 080 4439

Tessa Finnholm, +358 44 321 1196

Emergency number, 112

Program

Sunday 26.2.

18.00 Toga Party at Otakaari 20

Monday 27.2.

05.15 Bus to Raahe (611 km)

14.00 SSAB Raahe

16.30 Bus to Oulu (85,5 km)

19.00 Oulu Teekkaritalo: Evening happenings with
Oulun Prosessikilta

00.00 STOP DRINKING

Tuesday 28.2.

07.00 Bus to Kevitsa (391 km)

13.00 Boliden Kevitsa

16.00 Bus to Raudanjoki (98,5 km)

17.30 Hostel Visatupa & sauna

Wednesday 1.3.

09.15 Bus to Kittilä (150 km)

12.00 Agnico Eagle Kittilä

15.00 Bus to Kemi (308 km)

20.30 Kivikerho

23.00 STOP DRINKING

Thursday 2.3.

09.15 Bus to Tornio (25,3 km)

10.00 Outokumpu Tornio

14.00 Bus to Tampere (623 km)

23.00 Hotel Torni & happenings
with Materiaali-insinöörikilta

Friday 3.3.

09.00 Bus to Otaniemi (180 km)

18.00 Great Miners Ball



Company introductions

SSAB

SSAB is a Swedish industrial group. It is the largest crude steel producer in the Nordic countries. We are visiting SSAB's Raahе factory, where various standard, premium, and special steels are produced. The main products are hot-rolled sheets and coil products. The factory operates two blast furnaces to produce pig iron, which is then refined into steel at the steel smelter. The factory area also has a coke plant, a power plant, its own harbor, and one of Finland's largest laboratory facilities. Around 2500 SSAB's own employees and hundreds of representatives of contractors and partners work in the area.

NEW BOLIDEN

Boliden Kevitsa is a multi-metal mine operating in Sodankylä municipality in northern Finland. It is a significant employer in the region. The Kevitsa open-pit mine in northern Finland was acquired by Boliden in June 2016. The operation, which comprises of a mine and a concentrator plant, started in 2012. Their main products are copper and nickel concentrates. The concentrates also contain cobalt, platinum, palladium and gold. Ore concentrate is delivered to Boliden's own smelters located in Harjavalta and Rönnskär. The Kevitsa deposit – first discovered in 1987 – is one of the largest ever mineral discoveries in Finland. Nowadays, Kevitsa employs about 560 mining professionals in a variety of jobs.



AGNICO EAGLE

KITTILÄ

Agnico Eagle is a senior Canadian gold mining company that has produced precious metals since 1957. Its mines are in Canada, Finland, and Mexico, with exploration activities in each of these countries as well as in the United States and Colombia. The Kittilä mine located in Finland is the largest gold mine in Europe. They extract about 2 million tonnes of ore annually, yielding about 7,000 kg of gold. At current production volumes, the mine's known ore reserves are expected to produce gold until 2034. The mine life could be extended, depending on the results of exploration. Agnico Eagle Finland provides jobs for about 500 employees and about 800 contractor personnel.



Outokumpu Tornio is Outokumpu's biggest integrated plant and it is the only fully integrated stainless steel facility in the world. Tornio stainless steel operations consist of two stainless steel melt shop lines, hot rolling mill, cold rolling plant, brushing, and polishing as well as slitting and cut-to-length lines. Through Outokumpu Shipping Oy, Outokumpu operates the Röyttä Harbor (the Port of Tornio), enabling convenient transport of stainless steel coils to customers and a finishing line in Terneuzen in the Netherlands. A leader in innovation, Tornio is also home to one of Outokumpu's three R&D centers.

Dictionary

Hello, hi

Bye

Good morning

Good evening

Good night

How are you?

Thanks

Thanks a lot

I'm sorry

I'm terribly sorry

Please

Look!

I don't understand

I appreciate your opinion

I'm tired

I think I'm gonna throw up

It's too hot in here

It's awfully growded in here

Great party!

Cheers

Excuse me, can I get:

- a beer
- a cider
- a long drink
- some booze

Moi, Morjens, Hei, Terve, Moro

Moimoi, Moikka, Moro

(Hyvää) Huomenta, Moro

(Hyvää) Iltaa, Moro

Hyvää yötä, Öitä, Moro

Mitä kuuluu?, Miten menee?

Kiitos, Kiitti

Kiitti vitut

Anteeksi, Sori

Oho, Hups

Jooko

Kato, Kattokaa, Näätsä, Mikä toi on

Täh?

Haista home senkin mulkku

Heittäkää mut avantoon

Tuokaa ämpäri!

Lisää löylyä!

Vittuun siitä tönimästä

Hyvä meininki!

Kippis, Skål

Anna, Heitä, Pistä:

- kalja, olut, bisse
- siideri, sidukka
- lonkero, lonkku
- viinaa

Käännä wiseass kielelle

Suomi

1. viisas



The only word you'll need: Noniin

No = Well

Niin = Yeah

Noniin (Noniin) = Well, yeah

Noniin (No. Niin.) = That's what I've been saying

Noniin (Noonni..) = What have you done..

Noniin (NOonii!) = Well done!

Noniin (NoNIIN!) = Let's do it!

Noniin (No, niin) = You're right

Noniin (No nii-i!) = I know right?!

Noniin (No nii..) = That's too bad

Noniin (Noniin,) = As I was saying,

Noniin (Nonii!) = Stop it!

Noniin (Noni!) = I did it!

Noniin (NoNNI..) = Finally..

NONIIN!! = Let's drink!!

Important words/sayings

Kalsarikännit = Underwear drunkenness (self-explanatory)

Pilkunnussija = Comma fucker (a wise-ass)

Aivopieru = Brain fart (a state where you make stupid comments, can occur for example during a hangover)

Kaikki muumit ei ole laaksossa = All the moomins are not in the valley (stupid)

Kyykkyviini = Squat wine (cheap wine for which you have to squat to reach in the liquor store)

Sisu (has no translation, you either have or you don't)

Matti kukkarossa/Persaukinen = Matti in the wallet/Ass open (most students)

Kuin perseeseen ammuttu karhu = Like a bear shot in the ass (you in the morning)

Kissanristiäiset = A cat's christening (a party for nothing)

Pikkulauantai = Little Saturday (Wednesday)

Itkupotkuraivari = Crying-kicking-rage (self-explanatory)

ISW + do's and don'ts

If you are reading this article, you are probably in the ISW bus heading for a memorable trip. But what exactly is ISW and what can you do during the week? You might be a first-timer who doesn't know what's coming next or you are a well seasoned ISW veteran and you think you know it all.

The undeniable fact is that every year something unpredictable happens. Some cause a good laugh for everybody, but some actions cause gray hairs for local hosts. Here are a few things listed that have happened in the past as an advice and as a warning.

Sauna

Sauna, the national treasure of Finland. During the week you have plenty of chances to enjoy the heat in otherways so cold country. In addition to heat, you also have to cool off and there's no better way for it than iceswimming.

Be cautious in sauna and if you don't know how something works, ask the Finns about it. Some saunas don't have showers but they have a pot of hot water which you have to mix with cold water not to burn yourself (quite obvious but there has been accidents..).

Sauna also dehydrates you as well as drinking alcohol. So remember to drink water so you won't feel like raisin the next morning.



Food

Finland isn't known for the most extravagant dishes but there are some dishes worth tasting. The most infamous of these is Mämmi. It divides opinions of Finns, maybe because its appetizing looks and peoples opinion regarding annual news articles about how much mämmi Juha Mieto eats.

On top of Finnish culinary venue there is an association where only selected few are allowed, chili-mensa. The writer of this article isn't a part of this prestige association due to his palettes and rest of the bodys poor handling of spicy food.



Activities

If you, for some unknown reason, find yourself bored during the ISW, you should try some passtime activities. Some examples are mentioned in other articles in this paper. Of course, if those are not your cup of tea, you can ask from Finns the instructions for some traditional games such as sika-kimble and äijä-twister.

It's winter, so outside activities are also fun, but don't try them while not sober. Snowboarding with a sled sounds like fun, but the fun might end with broken collarbone.



Finnish games

'POLAR BEAR RUN'

All Finnish games are very simple and this one is no exception. What you need is a stick and a polar bear. Possibly a hospital and a funeral home to go along. First equip yourself with the stick and find a polar bear. Poke the polar bear with the stick until it gets annoyed or even irritated. When the polar bear starts coming at you STOP poking and run like hell. If you can outrun the polar bear you'll be the person of the day and you'll get one more story to tell to your grandchildren. If you can't... Well, maybe opt for a closed casket funeral. Please note that running in snow is very difficult.

'TURPAKÄRÄJÄT'

This one is fairly hard to learn so pay attention as you read through the directions. For this game you need a bar and a hot dog stand. Make sure that the hot dog stand is fairly close to the bar. You can always disguise a wall or build your own hot dog stand lookalike. First wait until the bar closes and a queue starts forming in front of the hot dog stand. Then start randomly picking a fight with the people in the queue. Try getting as many people irritated as possible. The winner is the one who gets the most people to fight. You can choose the time limit according to your own abilities. In a five minute game you have to get the whole queue irritated at the same time in order to get a decent score.



Finnish drinks

Tervahauta

2 cl Whiskey

2 cl Jaloviina

4 cl Tar liqueur

Mix whiskey and jaloviina.

Pour the tar liqueur gently
on top of the mix.

Ice-cold beer

1. Make sure it's really cold outside, like really cold.
2. Place a can of beer on a table.
3. Guard the beer for an hour or two, so that no thirsty miner drinks it.
4. Open.
5. Wait for spring.

Kahviplörö

6 cl coffee (hot or cold)

2 cl Koskenkorva vodka

Mix Koskenkorva gently
into coffee. Taste. If it
tastes horrible, add some
more Koskenkorva. You
might have to do this
several times. A very
good hangover drink.

Nuclear fallout

4 cl Jaloviina

4 cl Tequila

4 cl Sour milk

Mix everything up and think
“what the hell am I doing?”

Berry punch

3 bottles of vodka

1 berry (whichever flavour suits
you)

Pour the vodka into a bowl. Add
the berry. If the punch tastes too
sweet or is too rich in berries,
take the berry out.

Sauna

Sauna is a typical Finnish building with the purpose of making people sweat and feel uncomfortable. Sauna is where you scorch yourself with hot steam in an often inhumanly small space with too many men and too few women in it. Sauna is the culmination of Finnish attitude - when you haven't got anything useful to do, go do something stupid. Like drink too much, or start a meaningless fight with a random guy you've never seen before or go sit in a room that is too hot. Or, preferably, a combination of all three.

Where did sauna come from then? Originally it was just a place to get clean and warm. But due to the rarity of both of these, the ancestral Finns grew to worship sauna houses as holy places. Sauna elf was a spirit you had to keep happy or it'd burn down your sauna. Before hospitals became common, many a Finn was born in a sauna. For an ancient Finn, bathing in sauna was truly being one with spirits. It might be so nowadays too, but mostly in a different meaning.

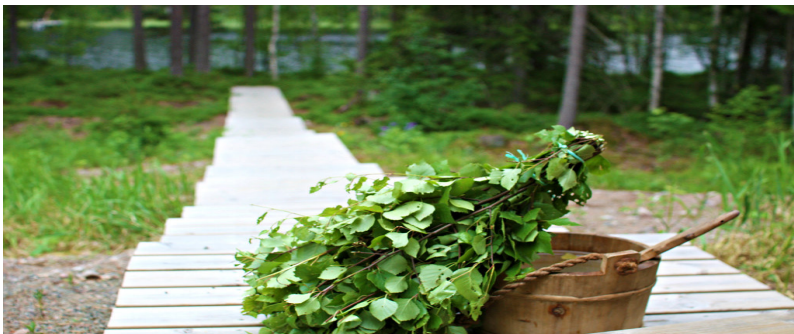


Typical modern sauna has multiple wooden benches (Germans tried steel...) at different heights and an oven on the floor. The oven, 'kivas', has rocks on top of it and water is thrown on them when the place doesn't feel hot enough. If the boiling steam isn't enough you can whip yourself with branches of birch tied together. You can also do this to a friend, they'd obviously do the same for you too! Nowadays most of the urban saunas are electric, although a true Finn prefers a wood-heated sauna typically found in summer houses and countryside. The additional work to get the room warm is a pleasure you can't get with an electric oven where you merely turn a switch to heat up the sauna. If you still want to add a little something to the experience, you may want to try out a traditional smoke sauna.

Now, the real reason behind all this is to give Finns an excuse for our favourite, and mostly only, hobby — drinking. You probably have a beer or two before you go to sauna, then a few inside just to hopelessly try to cool off a little and then some afterwards to quench the thirst. When you repeat the process enough it doesn't take long to get into a jolly happy mood. Drinking and sauna actually go hand in hand so well that it's often hard to distinguish one from another. In common day talk the two are almost synonymous which might confuse an outsider at first.



After you're done dehydrating yourself in the sauna, you usually want to cool off a little. This is commonly done by running into a freezing-cold lake, or in the absence of one, rolling or swimming naked in the snow. Due to lakes being thickly frozen for most of the year, breaking a hole through the surface makes for a nice exercise as well. A true Finn does this with a dull axe. Talk about breaking the ice! Haha. After you've cooled off one way or another, you go back to the sauna just to show you haven't learned anything.



Song book

1. JUHLAT, JUBILEUM

Hyvät ystävät, juhla voi alkaa,
Kasperille me nostamme jalkaa.
:,: Tää! ei juodakaan kolmosenkaljaa,
täällä viihdyn, suo shamppanja vaan.

:,:

2. VETOPASUUNA

Mä nuoren miehen ujoimman
näin pöydässä pienen ruokalan,
ja syystä, jota tiedä en,
sain hältä vetopasuunan.

Torvi, torvi tinakylki
aina soittaa juhlissa.

Torvea soittaa mies tuo nuori,
nuotteja vain tunne ei.

Bumtsi-bum, bumtsi-bum-bum...

Hän ulkona mua kuljettaa
ja ottaa kiinni mistä saa,
mut pohjimmiltaan kukaties,
on hänkin kelpo VUORIMIES!

Torvi, torvi tinakylki
aina soittaa jurrissa.

Torvea soittaa mies tuo nuori,
nuotteja vain tunne ei.

Bumtsi - bum...

3. NIIN MINÄ NEITONEN

:,: Niin minä, neitonon, sinulle laulan
kuin omalle kullalleni. :,:

:,: Jos olis valta niin kuin on mieli,
niin ottaisin omakseni. :,:

:,: Kullalleni minä laulelen
ja kellekkäs minä muille. :,:

:,: En minä laula kallioille,
enkä metsän puille. :,:

4. KATSELIN, KATSELIN

Katselin, katselin kaunista miestä,
kaunista miestä, tuulantei.

Kostuivat, kostuivat kämmenet hiestä,
kämmenet hiestä, tuulantei.

Otan sen, otan sen,
ennemmin kuin koskiksen,
sillä kaunis mies on silmänruokaa,
silmänruokaa tuulantei.

5. BUSSIKUSKI

On meillä hauska setä nyt bussikuski-
na.

Kun setä ajaa bussia on näky komia.
Kas näin heiluu bussi ja bussi heiluu
näin.

Kas näin heiluu bussi ja bussi heiluu
näin.

...Kas näin kaatuu tolppa...

...Kas näin lentää mummo...

...Kas näin kuolee kissa...

...Kas näin kaatuu bussi...

... Kas näin särkyä bussi...

6. WE ARE THE ENGINEERS

We are, we are, we are we are the
engineers.

We can, we can, we can demol-
ish forty beers.

The medical men of R.S.M. they
cannot drink with us,
'cause we don't give a fuck for
anyone else who don't give a
fuck for us. Oi!

Sir Fracis Drake and all his crew
set sail for Galway

Bay. To meet the Spanish
Rumfleet, that was heading by
the way. The engineers they cut
them short by a night and half
a day. Although they're drunk
like hooligans, you still can hear
them say:

We are,
we are, we are, we are the engi-
neers ...

7. TEEKKARIHYMNI

Yö kuin sielu
teekkarin on pimiä.
Takajoukko nukkuu vain,
nukkuu vain.
Tarhapöllön ääni kimiä
kuuluu pappilasta päin,
kuuluu päin.

Ja taas,
ja siis
ja yks, kaks, kolme, neljä, viis.

8. WILD ROVER

I've been a wild rover for many a year
And I've spent all my money on whiskey and
beer

And now I'm returning with gold in great store
And I never will play the wild rover no more

And it's no, nay, never
No, nay, never, no more
And I'll play the wild rover
No never, no more

I went to an alehouse I used to frequent
And I told the landlady my money was spent
I asked her for credit, she answered me, "Nay"
Saying, "Custom like yours, I can have any day"

And it's no, nay, never...

I took from my pocket ten sovereigns bright
And the landlady's eyes opened wide with
delight
She said, "I have whiskeys and wines of the best
And the words that I told you were only in jest"

And it's no, nay, never...

I'll go home to my parents, confess what I've
done
And I'll ask them to pardon their prodigal son
And when they have kissed me as oft-times
before

I never will play the wild rover no more

And it's no, nay, never...

Something to do

Connect the metals to their symbols and planets/celestial bodies used by the alchemists.

Gold



Mars

Silver



Saturn

Mercury



Sun

Copper



Jupiter

Iron



Mercury

Tin



Moon

Lead



Venus

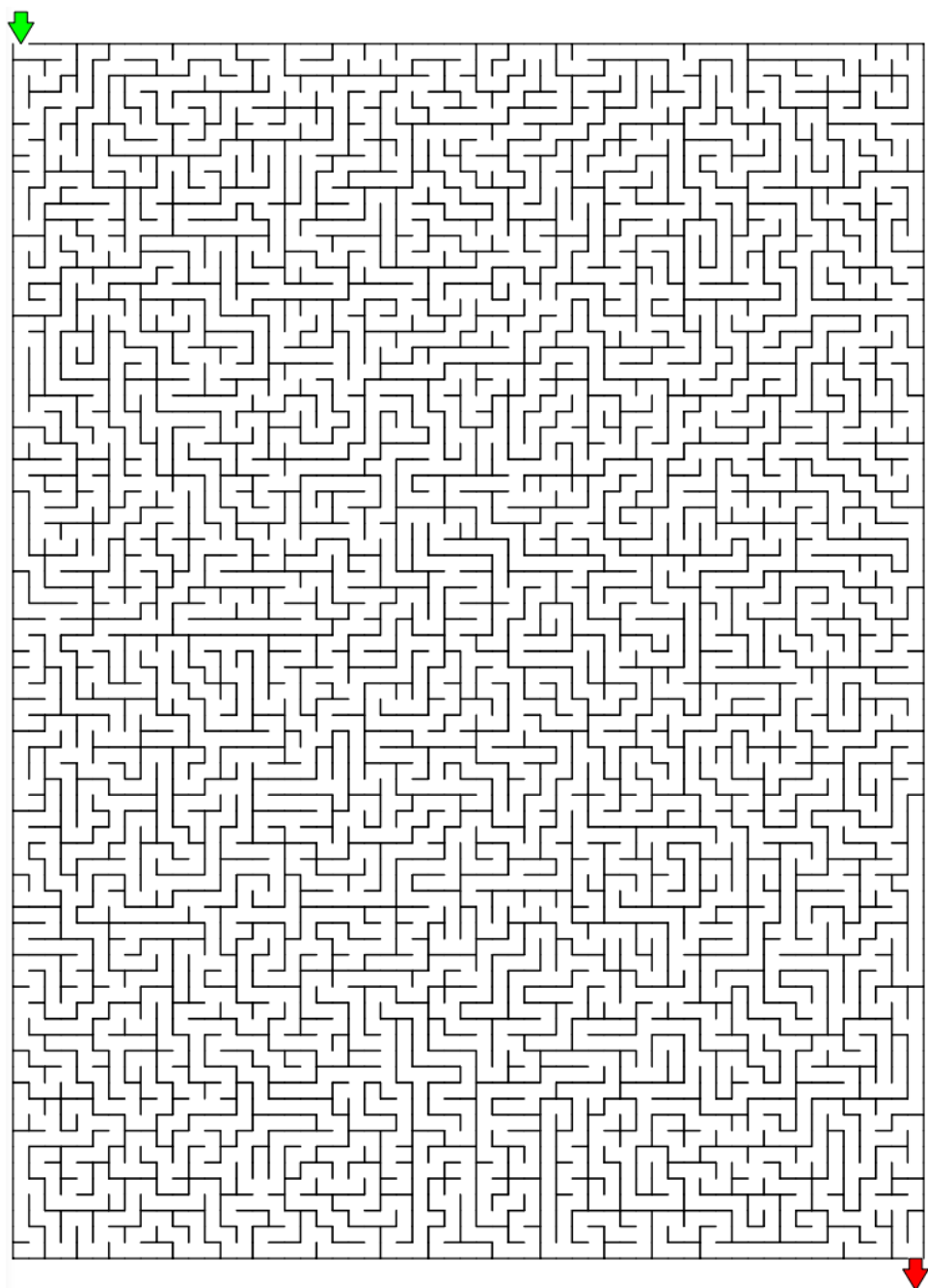


EASY

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

HARD

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



ISW Bingo

Remember to shout “BINGO” very loud when you’re finished and you might get a round of applause!!

Drink a can of beer in under 5 seconds	Spot a reindeer	Thank the bus driver	Go to sauna
Roll in the snow	Learn something	Spot a polar bear	Bus toilet doesn’t work
Eat mämmi	Draw the guild’s logo	Talk to a stranger	Spot the chairman on the phone saying haloo
Sit on the chairman’s lap	Ask a question from an excursion host	See the northern lights	Don’t lose this magazine

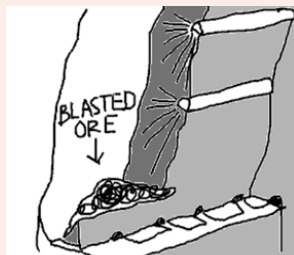
Couple of reference photos of Lassi on the phone saying haloo:



Guild logo here:

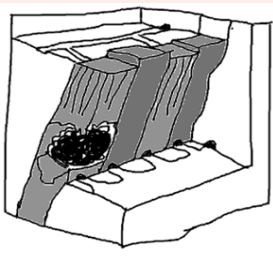
Miners' horoscope

Pisces 20.2.-20.3.



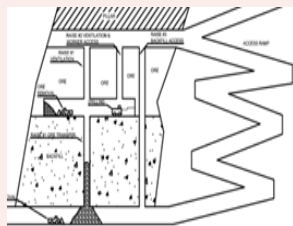
You are the sublevel stoping method. You're a pretty competent and regular person, and you give your everything to the things of your interest. You love to compartmentalize stuff and you probably have all your ISW stuff neatly packed.

Aries 21.3.-20.4.



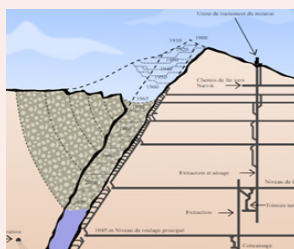
You are the vertical crater retreat (VCR) method. Your thoughts are quite complex, but you are always finding ways of improving yourself. You are safe to other people, and you often find yourself carrying people home from the bar.

Taurus 21.4.-20.5.



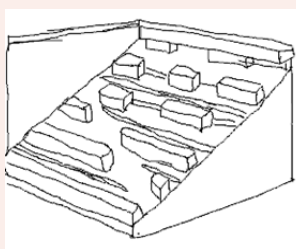
You are the cut-and-fill method. You are a relatively stable person and can quite selectively choose to which you focus your attention into. Continue this and you'll reach your goals, may it be finishing a velhotutkin- to or just surviving ISW.

Gemini 21.5.-21.6.



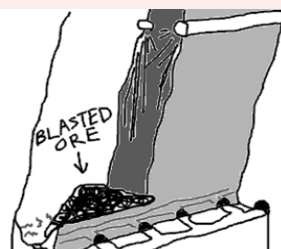
You are the sublevel caving method. Although you are mostly quite efficient, your sensitivity to small errors is what might affect your whole day. Don't worry too much, everyone makes mistakes. You can move whole cities if you put your mind to it.

Cancer 22.6.-22.7.



You are the step-room-and-pillar method. You are constantly adapting to harder tasks and conditions. You deserve a break, go and have a beer.

Leo 23.7.-22.8.



You are the longhole stoping method. You like to imagine things big. Your future looks bright, and you actually want to learn something during ISW. Good for you.

Virgo 23.8.-22.9.



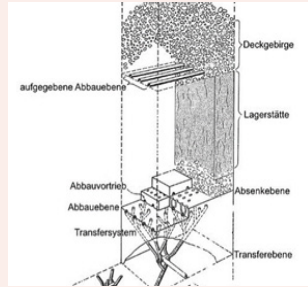
You are the open-pit mining method. You open up to others quite easily, and people like that about you. You should, however, think more carefully about who you trust, especially when drunk-crying.

Libra 23.9.-23.10.



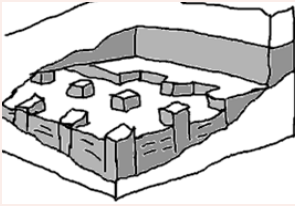
You are the shrinkage stoping method. Some of your moral thoughts are outdated and make your actions dangerous. You should try to better yourself and maybe read a book or two.

Scorpio 24.10.-22.11.



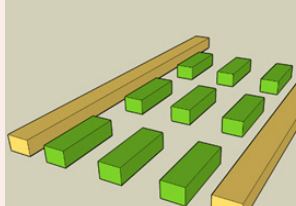
You are the block caving method. With very high stress levels you tend to break easily, and your breakdowns are usually very massive. You should probably go to therapy.

Sagittarius 23.11.-22.12.



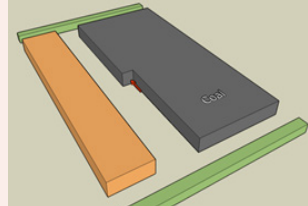
You are the post-pillar mining method. You like to copy and combine things from other people to build your own personality. Remember that you don't need to jump off a cliff into the open pit if your friend does though.

Capricorn 23.12.-21.1.

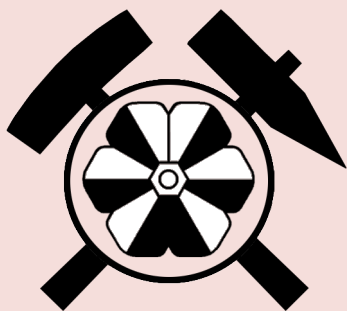


You are the room-and-pillar method. You have a natural support built in, so you often try to support others too. Just remember, not everyone's problems are your problems to solve. Have a beer and relax.

Aquarius 22.1.-19.2.



You are the longwall mining method. You like to remain horizontal, and resting is very important to you. Try to remember this also during the ISW.



Metallinjalostajat