

SPACE

STORM



magazine

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PREFACE

SPACE

“Never limit yourself because of others’ limited imagination; never limit others because of your own limited imagination.”

– Mae Jemison

Vostok 1. 12th of April 1961. Joeri Gagarin would be the first human to be in space. And on March 18th in the year 1965, Aleksej Leonov was the first human that left his spaceship to perform an ‘extravehicular activity’, also known as a spacewalk. Then 1967, Apollo 1, what would be the first crewed flight of the United States Apollo programme. During one of the tests, a fire in the cabin killed the three astronauts that were inside. However this did not hold back Kennedy from his goal. And then, on 16 July 1969 Apollo 11 took off, heading for the moon. On the 20th of July, Neil Armstrong and Buzz Aldrin would leave their footprints on the moon. Doing the unimaginable.

The space race between the United States of America and the Soviet Union caused that both nations were persistent in achieving their goals. Even when great setbacks, like the Apollo 1 fire happened. This persistence should not only apply to big things like the space race, but also to smaller things in your life. As the first afro-american female astronaut said: “Never limit yourself because of others’ limited imagination; never limit others because of your own limited imagination.” Stormers, what I actually wanted to say in all these words: never let someone demotivate you if you feel that what you are doing is the right thing. Pursue your dreams and inspire others. This is our last magazine, but we definitely will not leave a blank space. 🌱



Glimpse of the Past

by Yza de Ridder

With such a broad theme as we have this issue, I had much space to find an old article in our archive to write about. Storm's archive itself would already be an interesting topic to discuss here in this magazine: in the small space we have in the basement, many Storm years and thus Storm history are being conserved. Because of the broad theme and the many magazines that are stored there, it was actually quite hard to pick a nice article to write about. At first, I found something about a General Meeting held in June 2000. During this GM, the board decided to up the contribution that the members of Storm pay. Another big change was that they would change the number of board members from seven to five, for the sake of efficiency. This was quite interesting for me (as I am part of the current board of Storm), but I can imagine that it is more fun for you to read something about people and processes you actually recognise.

In the magazine of October 2009, members of the magazine committee were asked what they did during the summer holidays and they analysed how sustainable their choices were! Luckily, by that time, our lecturer Leontien Kraaijeveld was part of the magazine committee, so we can enjoy her answers on those questions.

Apparently, she went sailing in Friesland and she visited Paris, all in a quite sustainable way. Also, her comments with the answers showed that she thought about many aspects concerning sustainability, such as "driving in a car with open windows was not the best choice". What's also fun to see is that by that time, people in France did not really know how to handle vegetarians. "They prepared fish all the time, because what else can you make a vegetarian for dinner?", is what Leontien wrote down in one of her answers. Over the years, there certainly was some progress in those south European countries if we look at the vegetarian options, however, there is always space for improvement.

There is one answer that leaves me clueless, so there is space for interpretation I guess. I am talking about the response on the question that asks what kind of activities she did during her holidays. Her answer is "dopjes drinken", translated to "drinking caps". As far as I know, you only use this naming in the context of "een dopje voor de sfeer" (mainly used in the context of having a bottle of liquor with your friends), but of course, I cannot confirm the truth of this thought. How old is this 'tradition' and what was student life like back then? There is one way to find out: maybe bring it up at one of Storm's staff-student drinks! 🍃

Waarheen? Friesland; Parijs.

Hoe? Auto (helaas met de ramen open, wat slecht is vanwege de luchtweerstand, maar wel met de banden op spanning); Liften; Bus (helemaal vol).

Via? Niet zo moeilijk doen, gewoon rechtstreeks reizen is makkelijker.

Hoe lang? 1 week; 4 weken.

Verblijf? Kampeerboerderij; gastgezin, hostel.

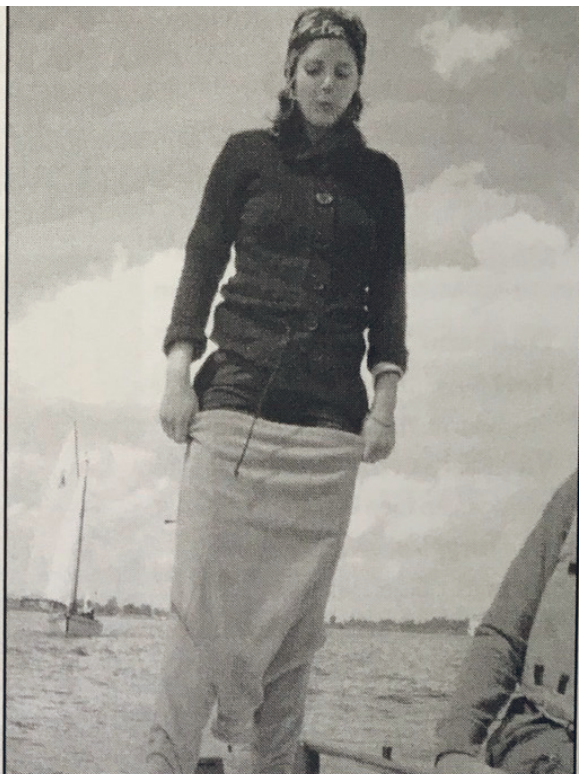
Activiteiten? Zeilen (soms motor gebruikt, maar dan wel met 4 of 5 aan elkaar gebonden zeilboten op één motor), dopjes drinken; wandelen, fietsen metröen door en onder Parijs.

Extra reizen? Een keer op en naar huis in de Parijse periode (zie beschrijving bus).

Voedsel? Friesland: Heel veel gegeten; Parijs: veel vis gegeten (wat moet een gastmoeder anders voor een vegetariër klaar maken??).

Schaamte? Veel vis eten kan niet schaamteloos; plaatsvervangend voor alle toeristen (en Fransen) die gaan wachten en vervolgens klappen en juichen als de lichtjes op de Tour Eiffel (die overigens best lelijk is) aangaan.

Dagtrips? Meer zeilen in Friesland.



Zeer professionele en transparante conclusie: Je denkt veel na over duurzaamheid. Dat blijkt wel uit de genuanceerde opmerkingen over de auto- en busritten. Zeilen is natuurlijk super-duurzaam, zeker als je een motor deelt met vijf boten. Maar die Eiffeltoren zit ons dwars: Dat mensen gaan klappen omdat er lichtjes aangaan, dat was te begrijpen in de tijd dat de eerste huizen elektrisch werden verlicht en men onder de indruk was van de nieuwe uitvinding. In deze tijd zou men meer verwachten dat er een algehele volkswoede (zeg maar gerust een Revolutie) zou ontstaan tegen zo veel verspilling. Dat jij je dan alleen maar schaamt, in plaats van eens duidelijk te zeggen waar het op staat! Milieucommunicatie nog eens bekijken???

Million Miles of Darkness

by Jesse Doomen

It's was a cold night. Judy was sitting in her garden looking at the stars. People say that time heals all. She desperately wanted that to be true. She was hurt. Not physically she wished it were physical. Emotional pain is not like physical pain. It doesn't heal. It had this ever-looming presence in everything Judy did. Her emotional pain felt more real than any physical pain ever could. It followed her, it haunted her. It showed its presence in every moment when she was awake and most times when she was asleep. She needed closure, her doctor said. It sounded simple but she couldn't imagine ever getting closure. Closure was millions of miles away enclosed by darkness.

She saw a light point moving along the night sky. She wanted to join it, navigate far away into the darkness and stay there for all the remaining cold nights to come.

She looked at her watch. It was 2AM. Time for sleep. Well... She would try to fall asleep. However, sleep wasn't something she could plan for. Sleep would only come for her when being awake was biologically impossible. Before she could walk into her house, she heard a knock on the garden door. She opened the door and saw a man in a dark suit. His face was red. He had sweat all over his once pearl white blouse. He was gasping for air as if he had just run a marathon.

"Hello Ma'am, could I have a moment of your time." he said between big breaths.

"Who are you?" Judy said. The man made her

uneasy, he reminded her too much of the past. The past that brought her so much pain.

"Ma'am I don't have much time. I want you to hear something. Something important."

She did not answer for a second. Then the man walked past her towards the back door of the house. She wanted to scream. She didn't. If he had wanted to hurt her, he would already have, she thought. The man sat on the couch. He took a couple of big breaths and then grabbed something from one of his suit pockets. It's was a plastic bag. She froze.

It was an old tape recorder. But not just any old tape recorder: their tape recorder.

She couldn't understand.

The man in black spoke. "Ma'am, I need to go now, before they'll look for me here. You should listen to it now before they take it away." The man stood up and walked out of the backdoor. She couldn't say anything that would resemble a form of gratitude. She was in shock, her eyes focused on the tape recorder. For a few seconds she just stood there, completely still. Then she heard sirens far away. She needed to act now. She took the tape recorder out of the plastic bag. It was labelled.

**EVIDENCE ITEM 1A – MR. FIELDSTONE'S
TAPE RECORDER**

She did not think and just pressed the large green triangle. She heard only static noise. Panic raised within her but then... It had come

from the darkness million miles away. She heard his voice.

‘Judy, what are you doing why are you recording this. This is not interesting.’

‘Come on make it interesting, say something interesting.’

‘I have nothing interesting to say.’

‘Uh okay, is this the best five dollars you have ever spent?’

‘Uh no. It doesn’t even have songs on it. My iPod has a million.’

‘You should learn to respect old technology. Put a song on it then.’

She couldn’t believe she was hearing this tape, this moment in their lives. Judy heard sirens getting closer. She paused the tape. It sounded as if they were at her front door. She needed to go.

She ran out of the back door into the back alley of her neighborhood. She ran like she had never ran before. She should have been exhausted, but instead she found new energy that boosted her through the alleys of her neighborhood. She knew a place where she could hide. A place where she hadn’t dared to go ever since that day, that day he left her. After a few tight corners in the alley she found an open field with a large stream.

There it was. Their small little bridge. She sat down below it. She pressed play again and heard the trumpet solo of Louis Armstrong. Oh

how she had missed that song, that version of it anyway.

Then she heard Chris sing along. The rawest most beautiful voice she ever heard.

‘Hold me close and hold me fast
The magic spell you cast
This is La Vie en rose

When you kiss me heaven sighs
And though I close my eyes
I see La Vie en Rose

When you press me to your heart
I’m in a world apart
A world where roses bloom

And when you speak...angels sing from above
Everyday words seem...to turn into love songs

Give your heart and soul to me
And life will always be
La Vie en Rose’

The song ended, and she fell back in time. The tape was exactly like she remembered. She held the tape recorder tightly, as is if she was holding him.

For a few seconds she forgot the pain. She might have finally been free.

But as quickly as her pain ebbed away it came back in full force. Worse than ever before. She sobbed. She had been reminded of her pain and it had not given closure, it only made it worse. Then, she heard him again. She turns still. She had not heard this before.

‘Beautiful song isn’t it, Judy. I’m sorry. I’m sorry, I know I shouldn’t have taken the tape recorder, it won’t last very long out here. But so... so will I apparently. You now probably already know. But I needed to talk to someone. I needed to talk to you. It’s... it’s rather boring out here. Are you looking at the stars? I try to find Sirius every day. I guess it’s easier for me, without all the light pollution and all. I’ll stop using our tape recorder, I know... I know it’s sacred.’

The static noise of the tape recorder returned. She could not believe it. He spoke to her. He spoke to her from the grave and he continued.

‘Hey Judy, thought of a great space joke. Yeah, I know. Nothing is as good as an announced joke... Well, here goes...

STATIC

Judy, just FYI, the joke is that there is no joke. Because space is an empty boring piece of nothingness. Just wanted to clear that up for if you didn’t get it.

Judy laughed. For the first time in 5 years she laughed. It was an emotion she didn’t believe she still had after all those years.


‘The tape is almost full already... I guess we shouldn’t have been so greedy on our first date [laughs]. It did last longer than all the other technology out here though... I’m serious. What a disaster this space program has been. Guess

somebody needed to be the first. I did hope they would have built something that lasted longer than a five-dollar tape recorder.’

The static returned. She hated him when left. She hated him for taking away her laughter, her happiness. She hated him when he was still on earth training for his mission into the darkness. But why did she hate him, he did what he had to do. He did it for her... Someone needed to be the first to travel the stars. She couldn’t ever forgive herself for that hate she gave him even these messages from the grave couldn’t let her forgive herself. The static had continued on longer than ever, was this it? Tears filled in her eyes.

‘Judy you need to realize. [coughs] The fight we had. Everything of our last month’s together. It wasn’t pretty. But I am not angry at you. I never was. [He takes a big breath] Don’t you worry about me. I have your voice here in my hand. Just like you have mine. I can get through this and so can you. Have a happy life my dear. ‘

The static returned. She finally heard the thing she needed to hear and in the voice she needed to hear it in. “I love you” she whispers.

‘I love you.’ 

Space & sustainability

by Stan van den Bosch

The word space can be interpreted in many ways. One might think about outer space, a room or maybe even mental space. In the context of sustainability, space is a rather straightforward problem:

we need space for solar panels, wind turbines, hydropower etcetera. The problem being straightforward however, does not mean that the solution is an easy one.


Space relates to many issues in sustainability. Not only energy generation but also afforestation and food production require extraordinary amounts of space. Making decisions on what certain spaces are used for is difficult, usually generating significant resistance from one party or another. Consider the A27 highway running past Amelisweerd, just south of the Uithof. Plans to widen this highway have motivated protesters – including Stormers – to gather at the nature area and combat the plan.

Although sustainability students might not realise it every day, space is one of the most important factors to consider when

trying to solve global warming. Without underestimating economic and social factors, spatial thinking can reveal indispensable insights into sustainability challenges.

Renewable energy, although unequivocally praised on the international and national level, receive extensive critique at the local level. It is precisely at the

local level where the impacts of the energy transition manifest their disadvantages. Farmers must make way for solar parks, and bird reserves are endangered by wind turbines. Cognizant of the undebatable need to move away from fossil fuel energy sources, solutions to these problems have to be found.

Adding the perspective of space to sustainability provides us with important perspectives. Solutions like nuclear energy cannot be fairly discussed without taking space into account. Remaining a sometimes-overlooked issue, space should never be forgotten in making sustainable development a reality. 

The sustainability conversation was at the peak of its life span, at this point all participants had unanimously started agreeing about the world at hand, a level had been achieved. One of them announced his opinion, questioning the idea of space exploration and that of it being a liability. I did try my best to manifest a comprehensive answer, regrettably there was none. This conversation like many before, ends with the most ubiquitous question of all; how does it help? A question that has many answers but all of them seem to have diluted into the flood of information, unrecognizable anymore. It is immensely difficult to make people understand the importance of space exploration and the magnitude of its impact. Space as it is, an emptiness with unknown wonders, it has often has failed to garner recognition for itself and has the ability to pass through people's daily consciousness without the knowledge of them ever being there. How did this come to be?

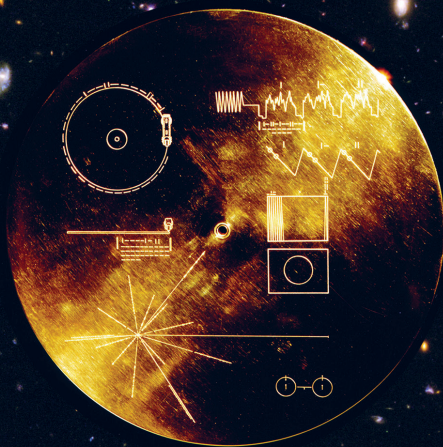
In the age before the scientific enlightenment, sky and space above it was the greatest unknown of the customary narrative built by humans over the centuries. This unknown proved to be too difficult to grasp as we explored our surroundings and documented every phenomenon we ever encountered. But, the sky was out of reach while being part of our daily life, in the form of an unfathomable, ever present force of nature. As incomprehensible as it was, it helped humans in many ways. To make sense, myths were built around the sky to help us comprehend it better.

A few centuries later we built rockets and flew to the moon, shattering many stories and building a new one, one that is much more true to its moral. But the first space age was birthed not out of curiosity but out of violent necessity. Excitement was quick to come and quick to wane. As soon as the objective to exhibit the ability of humans to explore space was reached, the race for the next milestones was abandoned and space exploration was restricted to the local orbit, besides the rare remarkable missions to peer into galaxies using telescopes to satisfy the bubbling curiosity within. These telescopes, namely Kepler, Hubble and many others were integral in keeping the humanitè's subsurface curiosity about the sky alive through the years.

A RANT: WHY SPACE

BY ANURAG SAWANT

In the later half of the last second decade a Space age 2.0 has arisen. Space industry has become commercially viable and new technologies have started appearing in the public arena. This time the exploration has started with true curiosity devoid of biases and the value of it for the betterment of humanity. This year on April 19th was the first time I saw three rocket boosters landing with precision and in unison. It was a memory that has not lost its feeling of awesomeness yet. Space critics have often cited issues with many national space agencies concerning the amount of resources being spent, arguing better ways of spending funds allocated for space exploration in the form of health care, disaster prevention etc. In truth the amount of resources spent on space exploration is negligible all the while paying in dividends. Consider this as an example; In 2012 NASA had the budget of 16.2 billion USD and of it 2.5 billion was used to land Curiosity rover on Mars. The landing of this rover helped us understand the geology and the atmosphere of the planet. This knowledge will build towards the ultimate goal of us becoming a multiplanetary species. In the same year America spent 44 billion USD on tobacco consumption. To precisely understand and document the trickle down effect of space exploration, NASA has been releasing its premier publication Spinoff since the year 1976. This publication deals with the NASA technologies developed through space explo-



Above: A travelling imprint of humanity
Background: Pale blue dot
(Everything we are is there)

ration and which are now helping to benefit life on Earth. This publication can be the answer to the question of Why? Space?. But, common people need to understand how extreme environments lead to extreme circumstances which in turn birth extreme solutions. There are many comparisons to help understand the true value of exploring space but that should not become the drivers of this idea.

Today's national space agencies such as NASA, Roscosmos, CNSA, JAXA, ISRO, ESA and private space agencies such as SpaceX and Blue Origins and many others represent the dreams of space pioneers such as Carl Sagan. A person with unparalleled foresight and a vision to represent humanity as a species in the world, literally. He was the one who designed the Voyager Golden Record with The Sounds of the Earth. A message in a bottle for the interstellar ocean that sends our greetings to any intelligent life form out and about. This was done with the help of Voyager 1, the proverbial bottle, traveling at the speed of 17.2 km/sec.

After All, looking towards the final frontier can be a necessary case of optimism in today's world. 🌱





Sustainable facts

selected by Jesse Doomen



Rare
Colobus Monkeys
get national park to
protect their habitat in
Tanzania

Canada banned the
extraction of all Oil, Gas,
and Mining from Marine
Protected Areas

**NYC City Council passed a
new Legislation called the
“Climate Mobilization Act” to
cut their emissions over 80
percent by 2050.**



This summer
almost every
country in the
world agreed to a
**UN Legal
Framework for
Reducing Plas-
tic Waste**





Region in Zambia Sees 50% Reduction in Elephant Poaching.

The EU elections have shown the rise of the

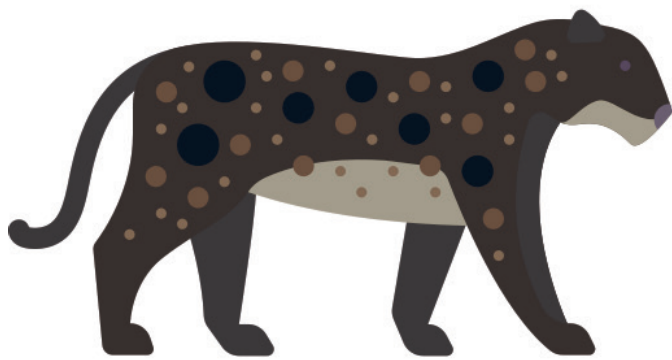
GREENS

The Green Party has
become the 4th largest
party in the EU par-
liament with over 70
seats!

Amsterdam is planning to
**ban all diesel and
gas powered**
cars and motorcycles by
2030

The Black Leopard has
returned to Africa.

**Clean
tech
jobs**
in the US
are
outpacing
fossil
fuel
employment



Storm Update!

by Yza de Ridder


Of course, most importantly, Storm will change boards! We believe Rens, Floor, Daniël, Inge, Anne and Marieke will make another amazing Storm year! According to their policy plan, it will be a year with more focus on musical talent again on sustainability, as these two new working groups are being erected. Thereby, they are planning to also improve the guidance for your current study path and your future career, by organising a Master's day for Stormers and more small career events. Moreover, another big change takes place! From now on, the new board will experiment with new opening hours. The room will open an hour earlier than before: at 9:30h instead of 10:30h. Good news, they will leave their beds earlier to make you coffee during your first lecture break ;)

In preparation for the academic year 2019-2020, the new members of the student representation are already chosen. Let's see which Stormers are speaking for you next year! For the ones not knowing what the student representation is (and thus obviously did not read

the elaborate information on the Storm website, shame!), I will shortly explain which organs are part of this representation and what they do.

On the level of the faculty, we have the Faculty Council. This organ has the right of consent in a number of important decisions of the Dean, such as the adoption of the faculty regulations and the Education and Examination Regulations. On the website of the university, you can find which students take place in this organ.

Then, we have the department. Here, the Education Committee has two Stormers to represent you: Joost van Gerwen and Chayenne Olumuyiwa. They will focus on actively improving your education by evaluating courses and giving feedback on education policies. So, for next year, you now know who to go to!

On another note, you can already order your books for the first period of the new year via Storm at StudyStore. Do it fast to make sure you can start the year fresh and well prepared :) 

Upcoming events



by Yza de Ridder

A new year has started and the Storm year of 2018-2019 is about to come to its end. There have been organised many great activities, such as the successful DIY sustainability week, a surfing weekend, the annual auction by the Kolokolo this year for Perma Atlas, the Garden Festival by the Party Committee and so on. Luckily, there are still a few things to look forward to!

- On the 25th of September, the XXVIIIth board will discharge and the current candidate board will be charged as the XXIXth board of Storm. Also, this evening, Storm will go over the last year and you will hear all about the plans of the next board of Storm.
- Then, it is time to party on the 1st of October! Let's all celebrate that Storm has a new board during the Change of Boards party.
- It is quite far away, but also save the date for Storm's members weekend (18-19-20 October). It will be legendary, as you would expect ;)
- Storm never stops: the next board and committees probably have already many fun new activities in mind. Keep an eye on the events page on the Storm website for all our events!



netwerk van
milieuprofessionals



The Magazine committee

Random facts

This is the last magazine of our committee of 2018-19! We want to say goodbye with this puzzle of random facts about our members.

Try to guess which fact is true for which member and look at the hint to see if you are right;)



The Magazine Committee of 2018-2019

Left to right: Yza, Jesse, Eva, Stan, Plamena, and Andy

Andy

Stan

Eva

Jesse

Yza

Plamena



Purple orange?



A

I have an **ocd** when it comes to the colour of a pen for taking notes in the same notebook (not only black or **blue**, also shades of **blue**)

B

When I see **purple** I say that it's **orange** and vice versa (even though I know which one is the right colour)

C

I have a tendency of **opening doors** while sleep-walking (doesn't matter how complex the latch is)

D

I hate sugary foods and therefore I have almost **never** eaten a dessert in the last five years

E

I've played **8 different sports** in my life, but I am still looking for one I'm talented at.

F

I've been a **first year** for 3 years now. (First gss, then bio, then orca.)

(D), Yza (A), Plamena (B)

Hint: Andy (C), Stan (E), Eva (F), Jesse

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