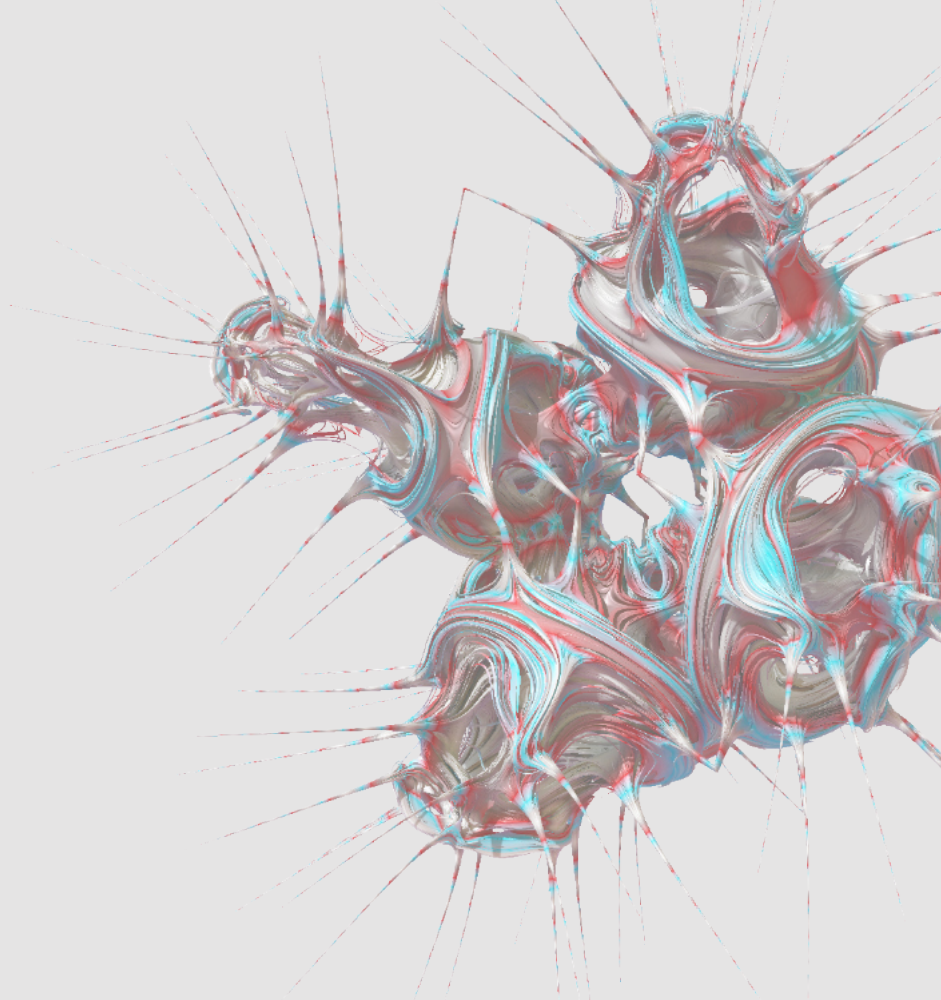


**A brief guide to**  
**The 2051 Munich**  
**Climate Conference**  
**2051年慕尼黑气候大会**  
**La Conferencia Sobre**  
**el Clima de Munich**  
**2051 Мюнхенская 18-19**  
**климатическая September**  
**конференция 2051 г. 2021**  
**خاندملل 2051 خينوي م رمؤم**  
**La Conférence sur le**  
**Climat de Munich en**  
**2051** ㄨㄣˊㄣˊㄣˊㄣˊㄣˊㄣˊ



# THE 2051 MUNICH CLIMATE CONFERENCE

An academic conference of the future, created by artists.  
18-19 September 2021, 10am-8pm CEST.

2 days. 12 sessions. 25 academic presentations. 45 scholars.

**Keynote speeches:** Adenike Oladosu, Elisabeth Wanjiruh, Helena Gualinga, Prof. Saleemul Huq. **Opening speeches:** Yolande Bönning, Anja Paolucci. **Moderation:** Nabila Abdel Aziz, Souad Alfa, Zahra Aklaqi, Sebastian Schindler. **Artistic contributions:** Taigue Ahmed, Claudia Robles-Angel, Studio Pangolin. **Performance:** Diana Marie Müller, Robert Spitz



# What is T2051MCC?

T2051MCC is an academic conference created by artists. For two days we take a look back at 2021 from an imagined year 2051. Does it make a difference to look at today's knowledge from another perspective? **What is so special about the contributions at T2051MCC?** All contributions have been written for T2051MCC. To take an uncommon perspective at today they have sought for ways to produce knowledge combining the factual with the speculative. We can not say how much we value the effort 45 scholars made to contribute to this uncommon conference. **Is T2051MCC just for academics? Or is it for Krethi and Plethi, too?** Yes! Scientific fact is contested more than ever before. Therefore we assumed that academic conferences of the future will seek new ways to make knowledge accessible for a larger audience. Consequently all contributions have been produced with a general public in mind. **Is T2051MCC accessible for everybody?** Yes! You don't need more than a Laptop, a tablet, or a phone plus good wifi, of course.

How will  
humans in  
2051 look  
back at  
today?

Discover  
the answers  
of 45  
scholars at  
T2051MCC

## How can I join?

You have three options and we recommend trying all of them, if possible: **1) WATCH THE LIVE STREAM:** The links will be embedded on T2051MCC.com prior to the conference. No registration required. **2) VISIT OUR VIRTUAL CONFERENCE CENTER:** You can walk around as an avatar, listen to sessions in our virtual meeting rooms and ask questions live. No registration required. **3) ATTEND THE SESSION AT THE BELLEVUE DI MONACO IN MUNICH:** To attend a session in person, registration is recommended. You can book your ticket following the link at each respective session at T2051MCC.com



# Navigating the virtual conference center

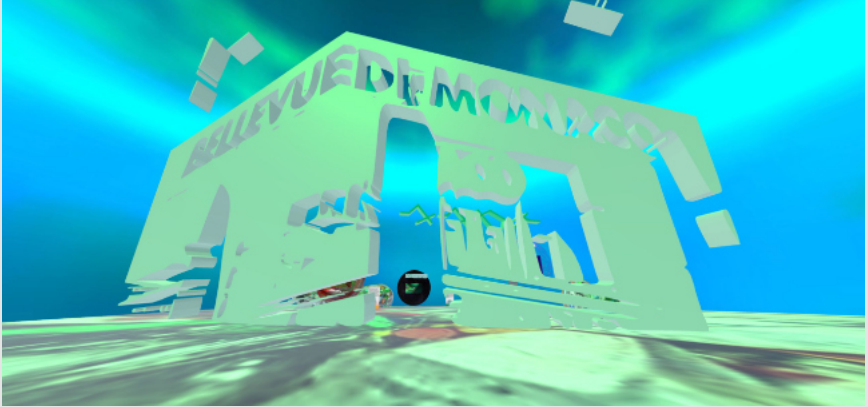
To enter the virtual conference center visit [T2051MCC.com](http://T2051MCC.com).  
Navigate to the portal or follow the links on the session pages.



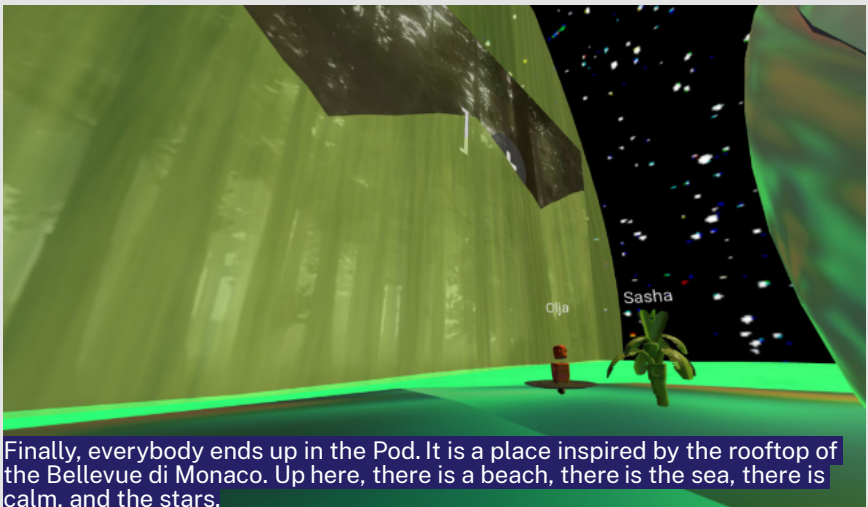
To enter the hubs you just need a browser. A headset is also very helpful. After entering, you have a welcome desk with useful information in front of you. Use the keys QWEASD to navigate, or your fingers on a tablet computer. To enter T2051MCC you will need to walk through a portal. Immediately, it will bring you into a 2051 future.



There are five rooms. To switch rooms, walk in front of a portal and click „Visit Room“. Make sure you help your friends find the way. At some time, you will arrive at The Corridor. All ways lead here. And from here, you can go everywhere.



There are two rooms where presentations are displayed: The Mycelium and the Vivarium. You can watch the presentations on the big screens. To ask a question, walk in front of a camera. There will be a representative of T2051MCC to help you. Your question will be televised directly into our studio.



Finally, everybody ends up in the Pod. It is a place inspired by the rooftop of the Bellevue di Monaco. Up here, there is a beach, there is the sea, there is calm, and the stars.

# day 1: beyond 2°

room

MYCELIUM

VIVARIUM

10.00am

## Opening Session

Opening statements    Keynote speech  
A. Paolucci | Zahra Akhlaqi    S. Huq

12.00 noon

### 51-1A

Climate Resilient Development in 2051: For whom?

L. Schipper, E. Carr, S. Eriksen,  
L. F. Carril, B. Glavovic, C. Trisos

Locked-in: Revisiting coastal adaptation policies in the Maldives  
G. Gussmann

### 51-1B

Why academia was of no help in building a sustainable society

M. Keck

The transformative potential of sociological imagination for eco-social change

L. Schlegel

3.00pm

### 51-1C

1001 scenarios for a troubled Earth  
R. A. Tysczuk

Proposed silvopastoral management solutions to the environmental and economic problems of the Carpathian Basin after the drought of 1862-1863

A. Varga

### 51-1D

Failing Images. How the Visual Discourse on Climate Change Changed Nothing in the Age of Visual Communication

M. Kink

Playing it safe or going the risky route: Europe's Emission Trading System as a yardstick for taking (regulatory) risks to address (climate) risks

M. Pahle

5.30pm

### 51-1E

Shroud for an Ancient Sea  
S. Nance

Accelerating towards the Anthropocene: How 2025 transformed the future

M. Kernan

Earth Operations Management  
K. Wallner, M. Schmitt

### 51-1F

A Museum of Carbon Ruins? Ethical and political challenges in historicising an unevenly distributed decarbonisation

P. Graham Raven, J. Strippel,  
L. Bengtsson Sonesson,  
R. Hildingsson, G. MacDonald,  
A. Nikoleris

Agony Aunt Letters: Epistolary notes from an everyday future

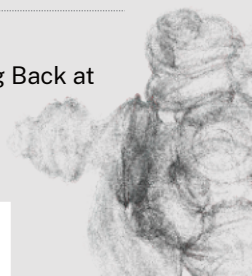
N. Powell

7.30pm

## Closing Session

Keynote speech    Artistic statement: Looking Back at  
A. Oladosu    "The Drying Prayer" (2021)  
T. Ahmed, S. Israel

# 18 Sep 2021



# 19 Sep 2021

room

## MYCELIUM

## VIVARIUM

10.00am

### Opening Session

Opening statement

Yolande Bönning

Keynote speech

Elizabeth Wanjiru Wathuti

12.00 noon

### 51-2A

Reducing the ecological impact of T2051MCC

S. Börsig, S. Weidacher, R. Geres,  
S. Brandis, T. Grantner

Climate Barbarism

J. Blumenfeld

### 51-2B

Adapt or Surrender? The policy dilemmas of climate change, habitability and migration in a low-lying atoll nation in the early 21st century.

K. van der Geest

The promise and reality of carbon dioxide removal technologies

M. Jakob

3.00pm

### 51-2C

The Pando Consortium: Science Fiction Prototyping for Conservation Technology

N. Smith

Renaturierung – The human vs nature re-connection

S. Javaid, R. Habeeb

### 51-2D

Tackling unsustainability with the help of consumption corridors: Transforming the meat system

M. Kanerva

Lessons from the Pioneers of a World Changing Cultural Shift

M. Solveig Siem, H. Naalsund Wille

5.30pm

### 51-2E

Global cloud control Or: How I learned to stop worrying and love geoeengineering

J. Kubečka, V. Besel, I. Neefjes

Lost in the nexus?: The integration-fragmentation of global climate governance in 2015-2045

M. Goldberg

Climate Resilient Development in 2051: For whom?

N. Powell

### 51-2F

The virtual realities of hydro-meteorological extremes

L. Arnal, M.-H. Ramos,  
F. Pappenberger, B. van den Hurk,  
M. Werner, L. Magnusson, H. L. Cloke

First contact after the Blank Days / Delegation from Kathmandu

W. Tuladhar-Douglas, B. Tuladhar-Douglas

7.30pm

### Closing Session

Keynote speech

H. Gualinga

Artistic statement

C. Robles

# day 2: below 1.5°

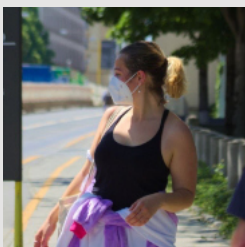




# Day 1 Opening Session

**18.09. 10am CEST**  
**rooms MYCELIUM, VIVARIUM**

## Opening statement



**Anja Paollucci**  
FridaysForFuture Munich

Anja is a Munich based activist with Fridays for Future acting both within her community and on a statewide level. She was born in 2002 in the United States but spent most of her life in Germany. She completed highschool in 2021 and now works for Umweltinstitut in Munich, where she performs radioactivity measurements and supports the agricultural consultants in terms of scientific work. Anja has been with FFF since Nov of 2019, is currently the spokesperson for Fridays for Future Bavaria and very involved in the organization of climate strikes.



**Saleemul Huq**  
Director of the International  
Centre for Climate Change and  
Development (ICCCAD),  
Professor at the Independent  
University Bangladesh (IUB),  
Associate of the International  
Institute on Environment and  
Development (IIED), Chair of the  
Expert Advisory Group for the  
Climate Vulnerable Forum (CVF),  
Senior Adviser on Locally Led  
Adaptation with Global Centre  
on Adaptation (GCA)

## Keynote speech

Prof. Huq is an expert in adaptation to climate change in the most vulnerable developing countries and has been a lead author of the 3rd, 4th and 5th assessment reports of the Intergovernmental Panel on Climate Change (IPCC) and he also advises the Least Developed Countries (LDC) group in the United Nations Framework Convention on Climate Change (UNFCCC). He has published hundreds of scientific as well as popular articles and was recognised as one of the top twenty global influencers on climate change policy in 2019 and top scientist from Bangladesh on climate change science.

# T2051MC



# Session 51-1A

18.09. 12 noon CEST  
room MYCELIUM



## Climate Resilient Development in 2051: For whom?

Lisa Schipper  
University of Oxford, UK

Edward Carr  
Clark University, USA

Siri Eriksen  
Norwegian University of Life  
Sciences, Norway

Luis Fernando Carril  
Tecnológico de Monterrey, Mexico

Bruce Glavovic  
Massey University, New Zealand

Christopher Trisos  
University of Cape Town, South  
Africa

Climate resilient development are pathways that emerge through efforts to achieve sustainable development while avoiding dangerous climate change. Looking back at 2021, Schipper, Carr, Eriksen, Carril, Glavovic and Trisos realise that climate resilient development is much more complicated than first assumed. It is an uncertain process that involves value-laden and ideologically charged decision-making. How can climate resilient development be fair, just and sustainable? And for whom?

## Locked-in: Revisiting coastal adaptation policies in the Maldives

Geronimo Gussmann revisits the underestimated ability of the Maldives to adapt to sea-level rise. Floating communities, land reclamations and the fortification of islands kept the islands habitable. Nonetheless, the attractiveness of the Maldives as a high-end tourism destination decreased drastically, leaving the islands economy paralyzed. The Maldivian population might soon face coastal adaptation limits that raise difficult questions about the future of the Maldives.

Geronimo Gussmann  
Global Climate Forum e.V.,  
Germany



# Session 51-1B

**18.09. 12 noon CEST  
room VIVARIUM**

## **Why academia was of no help in building a sustainable society**

In 2051 the global temperature has increased by more than 2°C above pre-industrial level. Extreme weather events such as heat waves, heavy rainfall and hurricanes are commonplace around the world, causing countless casualties every year. Markus Keck investigates why academia in the early 2020s was no help in building a sustainable society. He collects eyewitness reports by sustainability researchers, which provide highly intimate insights into the logics of science at that time.

Markus Keck  
University of Cologne, Germany

## **The transformative potential of sociological imagination for eco-social change**

Initially, political responses to the COVID-19 pandemic tackled only immediate health issues and focused on protecting the political and economic status quo. As environmental disasters accelerated and amplified social inequalities in the following years, both scientists and the general public demanded fundamental eco-social change. Lena Schlegel speaks from a future where change was enabled by sociological imaginations of alternative futures which triggered hope rather than fear as a basis for political decisions.

Lena Schlegel  
Rachel Carson Center for  
Environment and Society, Germany



# T2051MC

# Session 51-1C

18.09. 3pm CEST  
room MYCELIUM

## 1001 scenarios for a troubled Earth

Renata A Tyszczyk  
University of Sheffield, UK

60 years ago, in 1991, Mount Pinatubo in the Philippines erupted. This Eruption caused an albedo effect that lowered average global temperatures by  $0.5^{\circ}$ . Tyszczyk explores the need for multiple scenarios that rehearse the world and all its possible futures. This is not about resisting change or future-proofing, but instead about creating more humble futures of coexistence and refuge in response to planetary turbulence and unsettlement. Methodologically, Tyszczyk will review geoengineering scenarios via an archive of micro-biospheres - miniature planet B's.

## Proposed silvopastoral management solutions to the environmental and economic problems of the Carpathian Basin after the drought of 1862-1863

Researching on silvopastoral management solutions in the Carpathian Basin after the drought of 1862-1863, Varga discovered that papers from the 19th century were often more developed than those in the early 21st century. In a present the answers that are already there are often overlooked. Varga will look back at what can be learned from the 19th century papers she studied from a day on a pasture land in 2051.

Anna Varga  
University of Pécs, Hungary

2°C day 1: beyond 2°



# Session 51-1D

18.09. 3pm CEST  
room VIVARIUM

## **Failing Images. How the Visual Discourse on Climate Change Changed Nothing in the Age of Visual Communication**

Markus Kink  
Independent Researcher, Germany

There are significant parallels in the depiction of the horrors of war and the visualisation of climate change in media. Many activists, intellectuals and political actors believed that this was the appropriate approach. Markus Kink opposes and wonders whether this mode of portrayal was one more reason for the failure of political and societal action within the realm of climate change.

## **Playing it safe or going the risky route: Europe's Emission Trading System as a yardstick for taking (regulatory) risks to address (climate) risks**

Michael Pahle  
Potsdam-Institute for Climate  
Impact Research, Germany

What is the crucial factor that could have taken climate policy to a new and really “serious” level in the 2020s? According to Michael Pahle the fundamental issue was the degree of risk society was willing to take to tackle climate change. Discussing the European Emissions Trading System (EU-ETS), he illustrates the risk in relying on markets to combat climate change. The upside? It could trigger disruptive technological and social innovation at a much larger scale and speed.



# Session 51-1E

18.09. 5:30pm CEST  
room MYCELIMUM

## Shroud for an Ancient Sea

Sarah Nance  
Meadows School of the Arts  
Dallas, USA

Shroud for an ancient sea is composed of site-responsive shrouds which vary from expansive textiles to experimental vocal performances, acting as momentary surface layers that point to the complex records of deep time within the geo-anthropoc landscape. Nance presents a series of 2021 archived landscapes and speculative geologies. Nance uses data repositories that allow predictions of tide levels through 2100, which she will use to create a new vocal performance.

## Accelerating towards the Anthropocene: How 2025 transformed the future

Mark Kernan  
University College Cork,  
Ireland

On the 22nd of April 2025 the global temperature has risen to 1.5°C. How did we get there so quickly and how did we deal with it? Kernan looks back on all the mistakes and problems that lead to the climate tipping point much earlier than the community of scientist had expected. How could we have done things differently in attempting to address the ominous erosion of earth's life-support system?

## Earth Operations Management

Klaus Wallner  
Rosenheim Technical  
University of Applied  
Sciences, Germany

Markus Schmitt  
Landshut University of  
Applied Sciences, Germany

Schmitt and Wallner imagine a future where the invention of Earth Operations Management (EOM) was the answer to a successful fight against climate change. EOM is a synthesis of natural science, humanities, economics and management theory with a goal to replace destructive economic systems with new and sustainable methodologies that take the values of ecosystems into account. In their paper, Schmitt and Wallner look back at the origins of the new discipline in the early 2020s.





# Session 51-1F

**18.09. 5:30pm CEST**  
**room VIVARIUM**

## **A Museum of Carbon Ruins? Ethical and political challenges in historicising an unevenly distributed decarbonisation**

**Paul Graham Raven**  
Institute for Atemporal Studies and  
Lunds Universitet, Sweden

**Johannes Stripple**  
Lunds Universitet, Sweden

**Ludwig Bengtsson  
Sonesson**  
Lunds Universitet, Sweden

**Roger Hildingsson**  
Lunds Universitet, Sweden


**Graeme MacDonald**  
Warwick University, UK

**Alexandra Nikoleris**  
Lunds Universitet, Sweden

With its grand opening scheduled for 2053, the new Swedish museum FOSSIL will be dedicated to documenting the Fossil Era, now considered to be a part of Swedish history, if not yet the history of all nations. In this talk, members of the curatorial team will discuss their work-in-progress on the museum's debut exhibition, "Carbon Ruins", and their approach to the selection, acquisition and framing of potential exhibits. They will also address the ethics of celebrating the completion of the Swedish decarbonisation programme in the context of a world where not all such programmes have yet succeeded.

## **Agony Aunt Letters: Epistolary notes from an everyday future**

What does everyday life look like in the UK in 2051? Nico Powell looks back from an everyday future to pinpoint actions and decisions that lead to his present: In March 2021 the Bristol City Council approved a motion that committed them to recommend the cause of reparations to the UK Government. The reactions varied and unleashed a chain of events that could lead to very different climate outcomes. The empirical material for Powells analysis are so called agony aunt letters that could be sent to newspapers and were answered by an editor.



**Nicolas Powell**  
University of Edinburgh, UK

# T2051MC

# Day 1 Closing Session

18.09. 7:30pm CEST  
rooms VIVARIUM, MYCELIUM

## Keynote speech



Adenike Oladosu  
FridaysForFuture Nigeria,  
ILeadClimate movement

Adenike Oladosu, who calls herself an “eco-feminist”, is passionate about youth involvement in climate action through climate education; and the importance of women’s rights which she links with environmental rights. Born in Nigeria, Oladosu earned a first-class degree in Agricultural Economics and is an ambassador for Earth Uprising and African Youth Climate Hub. She is also head of the “ILeadClimate” movement for peace, security and equality in Africa, particularly in the Lake Chad region. Oladosu is part of the FridaysForFuture movement in Nigeria.



Taigué Ahmed  
Dancer and Choreographer,  
Chad.

Sarah Israel  
Dramaturge and Curator,  
Germany

„The Drying Prayer“  
is a Dance Project by Taigué  
Ahmed (NDAM SE NA) in  
Cooperation with HochX Theater  
und Live Art, Deutsches  
Nationaltheater Weimar,  
Deutsches Theater Göttingen  
and Institut Français in Chad. In  
Collaboration with the Centre  
National de Dance (Paris).

## Artistic statement: Looking Back at “The Drying Prayer” (2021)

„The Drying Prayer“ is a production on the transformations in the biosphere around Lake Chad. Together with five dancers, dramaturge Sarah Israel, DJ Caleb Rimbtobaye/Afrotronix and Taigué Ahmed headed for a trip of artistic and practical research in the Lake Chad region. Back in 2021 this production made bold claims about the future. Today – 30 years after the premiere – Ahmed watches the old material for us and reflects on what came true and what did not. Which role did the arts play in this region of supreme political and biological importance for the world?





# Attend T2051MCC at Bellevue di Monaco!

To attend T2051MCC live and in person we strongly recommend to reserve your ticket in advance. Admission is free but capacities are limited. Please navigate to the respective booking link for each session at **T2051MCC.com** to make a reservation.

## About Bellevue di Monaco

The Bellevue di Monaco is a residential and cultural centre for refugees and other Munich citizens in the heart of the city. It runs and maintains three buildings, one for cultural and educational activities and two providing housing for almost 50 refugees. To help and support refugees with their start in Munich, Bellevue di Monaco established a broad program of courses. All programs are mostly executed by volunteers.

Bellevue di Monaco also offers a diverse culture program ranging from panel discussion on topics of migration and diversity to films from and about the home countries of our guests, to theater plays and concerts presenting artists from all over the world. The Café is the gateway to the city. It is organized and run together with immigrants and refugees.

The project is run by a cooperative of more than 700 members representing the diverse and colorful Munich citizenship ranging from refugee supporters, social workers and political activists, to artists and politicians, to lawyers and managers and corporations.

They are united by the strong belief that a better, more humane treatment of refugees will benefit us all in the long run. That we want to welcome those who are here and that isolation has no future.

For more info see **[bellevuedimonaco.de/english](https://bellevuedimonaco.de/english)**



## Getting there

Bellevue di Monaco  
Müllerstrasse 2-6  
D-80469 Munich

### Public transport stops

Blumenstraße (bus), Reichenbachplatz (tram)  
Fraunhoferstraße (underground/tram)  
Marienplatz (underground/suburban)

For more info see [mvv-muenchen.de/en](https://www.mvv-muenchen.de/en)

# Day 2 Opening Session

**19.09. 10am CEST**  
**rooms MYCELIUM, VIVARIUM**



Yolande Bönning  
FridaysForFuture Munich

## Opening statement

Yolande is a Fridays for Future activist from Munich. She was born in Munich in 2005. She is now in 10th grade. She has been active at Fridays for Future since 2020. At FFF her tasks include organizing the Friday strikes as well as answering and taking on cooperation and press inquiries. Up next, she will be a presenter at the 24 September Global Climate Strike in Munich.

## Keynote speech



Elizabeth Wanjiru  
Wathuti

Elizabeth Wathuti is a passionate environmentalist and climate activist from Kenya. She is the founder of Green Generation Initiative (GGI), and the Head of Campaigns and coordinator of Daima coalition for the protection of urban green spaces at the Wangari Maathai Foundation. She is a full member of The Greenbelt Movement, board member of the Elephant neighbors center and a youth council member of the International Reserva: The Youth Land Trust. She has received several awards for her environmental activism including the young climate champion 2019 award from the Green Climate Fund (GCF).

# T2051MC

# Session 51-2A



19.09. 12 noon CEST  
room MYCELIUM

## Reducing the ecological impact of T2051MCC

When we started to think about T2051MCC it was clear to us that we could not accept visitors traveling by plane to a climate conference. Therefore, virtual participation had to be equally attractive. So we developed the virtual arm of T2051MCC with our partners Moby Digg and MediaBox TV.

In order to further reduce the ecological impact of T2051MCC we started a project with Rehab Republic, FutureCamp Climate, and Omnicert. With the zero waste team of Rehab, we looked for ways to minimize waste. The climate experts of Munich-based consultancy FutureCamp Climate helped us to reduce and compensate remaining carbon emissions with a mitigation project of 'Menschen für Menschen' foundation in Ethiopia. OmniCert ecological verifiers help us critically review our attempts. In this session, our three partners will give you insights on their efforts. Our goal is to share this knowledge with other makers of artistic projects.

Stefanie Börsig  
Rehab Republic

Sengül Weidacher  
FutureCamp Climate

Roland Geres  
FutureCamp Climate

Sebastian Brandis  
Menschen für Menschen

Thorsten Grantner  
Omnicert

# C day 2: below 1.5°



# Session 51-2B

19.09. 12 noon CEST  
room VIVARIUM

## Climate Barbarism

Jacob Blumenfeld  
Carl von Ossietzky  
Universität Oldenburg,  
Germany

In 2051, climate barbarism has become the norm. Jacob Blumenfeld wonders: how did we get there? Does genuine scientific awareness and acceptance of the existence of anthropogenic climate change really lead to collective human action against climate change? Or can it possibly lead towards antiegalitarianism, xenophobia, and classism?

## Adapt or Surrender? The policy dilemmas of climate change, habitability and migration in a low-lying atoll nation in the early 21st century.

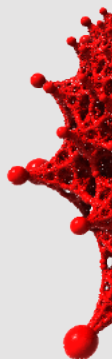
Kees van der Geest  
United Nations University,  
Germany

In 2020, the territory of the Marshall Islands was less than 2 meters above sea level. Most Marshallese people strongly resisted the idea that their islands could become uninhabitable. In the late 2020s and 2030s, climate negotiators from small islands states managed to turn the narrative from one of 'climate refugees' and hopelessness to a more positive narrative of fighting to keep their countries habitable for future generations. Kees van der Geest looks back on the methodologies and actions that led to this turn around.

## The promise and reality of carbon dioxide removal technologies

Michael Jakob  
Mercator Research Institute  
on Global Commons and  
Climate Change, Germany

In the late 2010s and early 2020s, the importance of 'negative emissions' was frequently discussed by the international community. Michael Jakob looks back at the period of 2014-2026 and analyses the different positions. While industry and conservative parties were strongly in favour of the new technologies, environmental NGOs and green parties showed hesitation.

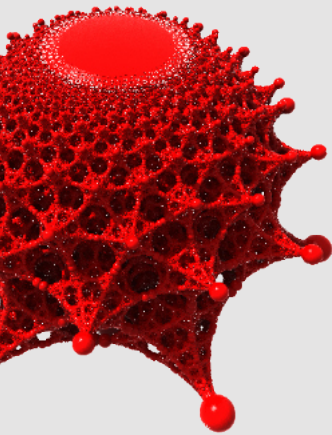




# Session 51-2C

19.09. 3pm CEST  
room MYCELIUM

Nathan Smith  
University of Maine, USA



## **The Pando Consortium: Science Fiction Prototyping for Conservation Technology**

In order to develop a future where we achieve the goals of the Paris Agreement, we need to leverage not only the technology, policy, and economic tools at our disposal, but also, of course, our collective imagination of a better future. Using a science fiction prototyping methodology, Smith is developing a future scenario where all of the above can converge and where, in 2051, we have analyzed the outcomes. Critical to this scenario is The Pando Consortium, a platform where scientists, artists, engineers, investigators, and others can interact, collaborate, and develop solutions that utilize today's cutting-edge technology and thinking, as well as what's on the horizon.

## **Renaturierung – The human vs nature re-connection**

Sana Javaid  
Chair for Strategic Landscape  
Planning and Management,  
Technical University of Munich,  
Germany

Riyan Habeeb  
Dresden Leibniz Graduate School /  
Leibniz Institute for Ecological  
Spatial Development, Technical  
University of Dresden, Germany

Since the pandemic in 2020, nature-based solutions were researched to both combat rising temperatures and increasing water woes but also to include humans centrally in the entire course of action. Now, in 2051, the exclusion and injustice that climate change inflicted is effectively encountered. Javaid and Habeeb speak from a future, where climate action happened through a change in lifestyle and basic measures like planting and fostering urban trees.





# Session 51-2D

**19.09. 3pm CEST  
room VIVARIUM**

## **Tackling unsustainability with the help of consumption corridors: Transforming the meat system**

Minna Kanerva  
artec Sustainability Research  
Center, University of Bremen,  
Germany

In the early decades of the 21st century, consumption was increasingly named as the root cause of the twin crises of climate change and ecology. Therefore, transferring societies towards sustainability was eventually seen to require strong sustainable consumption governance, rather than merely steering consumers towards “better choices”. Kanerva looks back at the developments from the early 2020s onwards regarding consumption corridors and the transformation of the meat system.

## **Lessons from the Pioneers of a World Changing Cultural Shift**

Solveig Siem  
Department of Education at the  
University of Oslo, Norway

Håkon Naalsund Wille  
Norwegian University of Science  
and Technology, Norway

Today, in 2051, the majority of the world's leading historians recognize the ‘Mycelium Initiative’ as the 2020s catalyst for the mass cultural shift towards a holistic ecological mentality. Solveig Marie Siem and Håkon Wille identify the beginning of it all in a project for local climate action in a small Norwegian town that eventually developed in a global network. The ‘Mycelium Initiative Centres’ allowed the public to access tools and information to support the creation of their own climate projects.

# T2051MC





19.09. 5:30pm CEST  
room MYCELIUM

# Session 51-2E

## **Global cloud control Or: How I learned to stop worrying and love geoengineering**

Jakub Kubečka  
Institute for Atmospheric and Earth  
System Research, University of  
Helsinki, Finland

Vitus Besel  
Institute for Atmospheric and Earth  
System Research, University of  
Helsinki, Finland

Ivo Neefjes  
Institute for Atmospheric and Earth  
System Research, University of  
Helsinki, Finland

Besel, Neefjes and Kubečka imagine a world in which during the 2030s artificial intelligence has become so advanced that we gave it full control over the weather in order to stay below 1.5°C. It came at a great cost, but humanity is still going, and we may have just ensured another few decades to our existence

## **Lost in the nexus?: The integration-fragmentation of global climate governance in 2015-2045**

Matti Goldberg  
Technical University of  
Darmstadt, Germany

‘Nexification’ is understood as a tendency to seek connections. Goldberg witnesses that in 2015-2045, the more connected things became, the less responsible key-actors in the realm of climate change felt to change. Based on actual interviews with international civil servants and secondary literature, this study describes the intensified nexification of global climate governance in 2015-50.

## **Climate Resilient Development in 2051: For whom?**

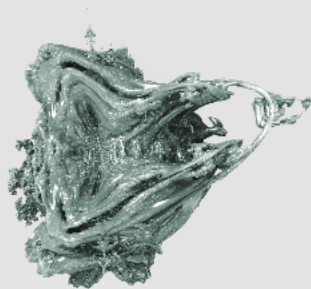
Nicolas Powell  
University of Edinburgh – MSc  
Environment, Culture and  
Society, UK

What does everyday life look like in the UK in 2051? Nico Powell looks back from an everyday future to pinpoint actions and decisions that lead to his present: In March 2021 the Bristol City Council approved a motion that committed them to recommend the cause of reparations to the UK Government. The reactions varied and unleashed a chain of events that could lead to very different climate outcomes. The empirical material for Powells analysis are so called agony aunt letters that could be sent to newspapers and were answered by an editor.

# C day 2: below 1.5°



# Session 51-2F



**19.09. 5:30pm CEST**  
**room VIVARIUM**

**Louise Arnal**

University of Saskatchewan, Centre for  
Hydrology, Coldwater Laboratory, Canada

**Maria-Helena Ramos**

National Research Institute for Agriculture,  
Food and Environment, France

**Florian Pappenberger**

European Centre For Medium Range Weather  
Forecasts, Reading (UK) / Bonn (Germany) /  
Bologna (Italy)

**Bart van den Hurk**

Deltares, MH Delft, The Netherlands

**Micha Werner**

IHE Delft, Institute for Water Education, Delft,  
Netherlands

**Linus Magnusson**

European Centre For Medium-range Weather  
Forecasts, Reading/Bologna/Bonn, UK/Italy/  
Germany

**Hannah L. Cloke**

University of Reading, UK; Uppsala University,  
Sweden; Centre for Natural Hazards and  
Disaster Science, Sweden

## **The virtual realities of hydro-meteorological extremes**

Throughout the last decades, rapid changes in the Earth System have led to unequal effects of climate change across the planet. As a result, there has been an increase in social inequalities. The predictability of extreme hydrometeorological events such as e.g. droughts and floods is now very variable across the globe. Arnal et al look back from a future where technologies such as virtual reality are mainstream and can be used to forecast and anticipate extreme events as well as warn those at risk.

## **First contact after the Blank Days / Delegation from Kathmandu**

What does the world look like after a decade-long, widespread ecological, political, economic, and social collapse – the Blank days? A delegation from Nepal reaches Munich after months of travel by airship caravan and years of no contact. They share their indigenous community knowledge in order to help develop a sustainable society.

**Will Tuladhar-Douglas**

Research Fellow, University of Hamburg and  
Situgyan Consulting Limited, UK

**Bhavana Tuladhar-Douglas**

Situgyan Consulting Limited, UK

# T2051MC

# Day 2 Closing Session

## Keynote speech



**Helena Gualinga**  
Indigenous activist from the  
community of Sarayaku,  
Ecuador

Helena Sirén Gualinga is a climate and human rights activist. She is from Kichwa-native and Finnish origin. She spent a big part of her childhood in the community of Sarayaku in the Ecuadorian Amazon. Sarayaku is a community that for decades have been fighting oil corporations from entering their territories. Gualinga has followed in the footsteps of her fellow community members to create awareness regarding extractive in the Amazon and the importance of Indigenous people's rights.

## Artistic statement



**Claudia Robles**  
LEIKHËN

LEIKHËN was created for and during an artist in residence at the Immersive Lab (IL) at ICST (Institute for Computer Music and Sound Technology) Zurich.

Inspired by the composite plant of lichen (from Greek: leikhēn), which is the result of a hybrid partnership between a fungus and an alga. The installation is therefore a reflection upon the interaction and mutualistic relationship between two organisms, and how this union impacts on their behaviours inside a created audiovisual immersive space.

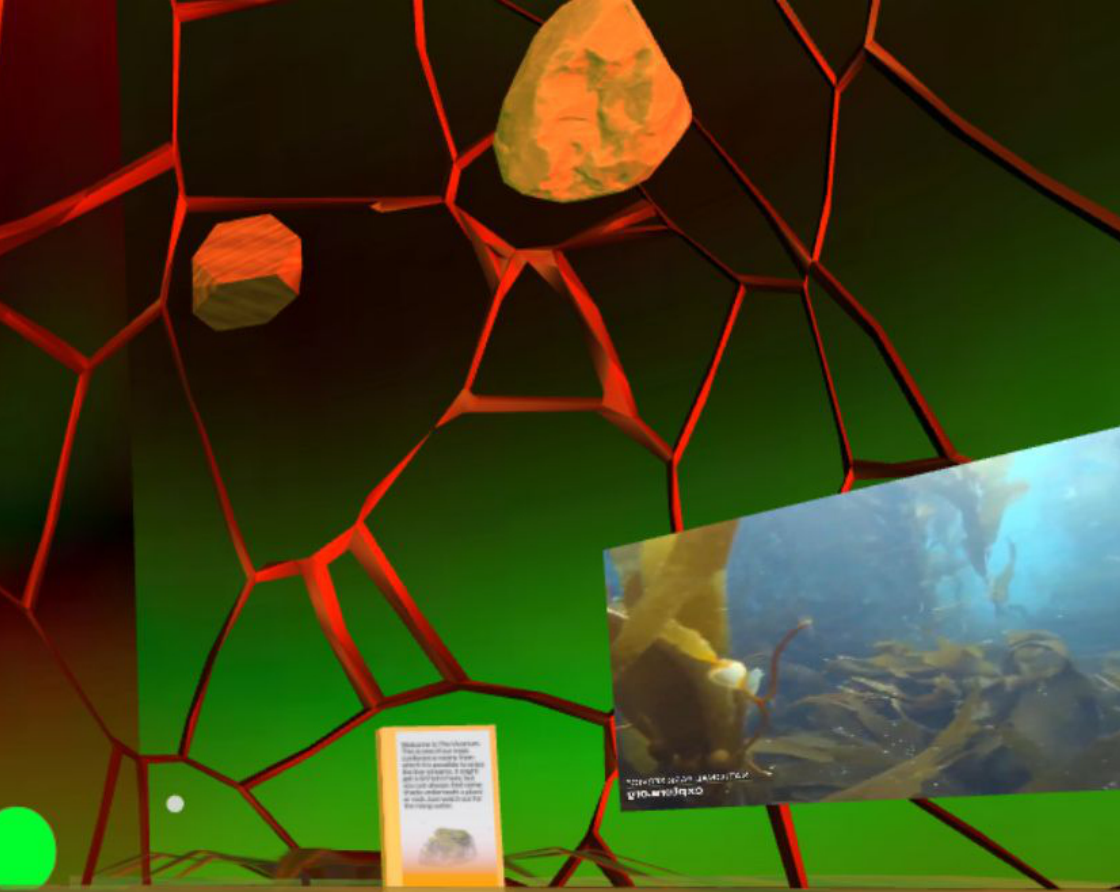
The installation consists basically of two types of participants: the central figure or host, sitting in the middle of the panoramic video space, whose brainwaves' values are collected via a BCI interface in order to influence the sonic environment; the second type of participant is represented by the guest(s), visitors who, by touching the screens, influence the host's emotional states through to the tactile transducers that are attached to the chair where the host is seated and consequently, also the audiovisual environment.



# Witchgrass

Witchgrass uses fragments of narratives and the diary of Valentina Tereshkova, the first woman in space, and deals with questions of the female body in zero gravity, the condition of organic and the inorganic on the planet and beyond. Time, its expansion and its appearance in meteorology, geology, biology. The project uses field recordings, electronic music, video and film archives, and original text by Nicole Hewitt. Recorded live in Theatre ITD, Zagreb, as part of the Showroom of Contemporary Sound, 2017.

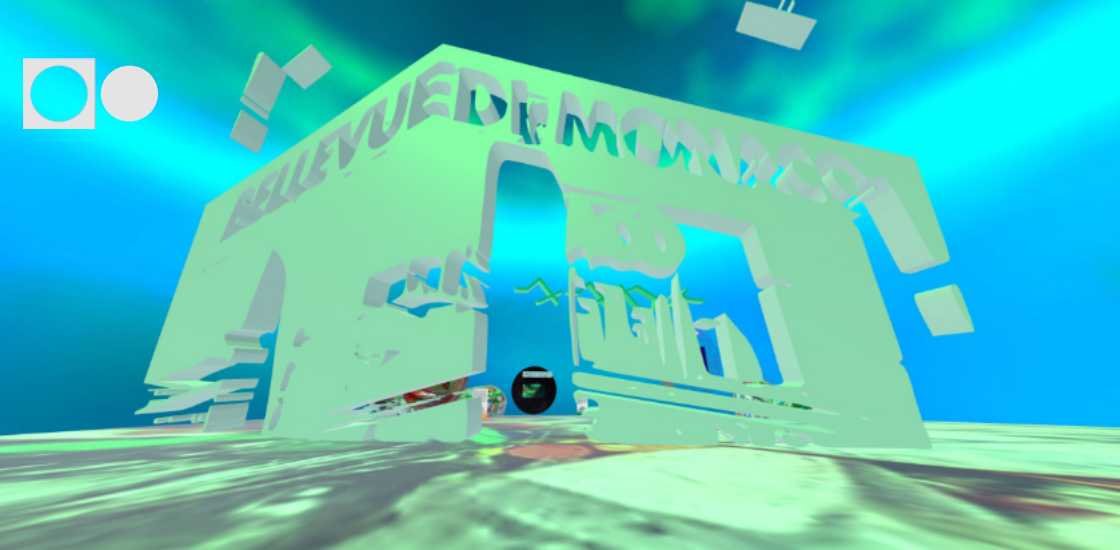
Witchgrass by Studio Pangolin will be played in the Vivarium between sessions.



# Visit our virtual conference center

You can find our virtual conference center at [T2051MCC.com](http://T2051MCC.com)  
Digital design studio Moby Digg has created five rooms in which you can attend sessions, meet other conference visitors, or just chill out.





## **T2051MCC is a Büro Grandezza project**

### **Büro Grandezza team**

T2051MCC directors: Benno Heisel, Andreas Kohn, Theresa Spielmann

Academic Advisor: Sebastian Schindler

Embodiment Facilitator: Isabelle Cohn

Project Management Assistant: Jennifer Zoll

### **Collaborating artists**

Scenography and Arts at Bellevue di Monaco: Susi Gelb

Costumes: Martha Pinsker

### **Additional team**

Moderators: Nabila AbdelAziz, Souad Alfa, Zahra Akhlaqi, Sebastian Schindler

Performers: Diana Marie Müller, Robert Spitz

Chief Technician: Lionel Dzaack

Communications: Christiane Pfau

Online spaces and website: Moby Digg

Streaming: Markus Kink / MediaBox TV

Concept and idea (2018-2020): Nikolaus Witty

Project Management: Laura Martegani, Rat & Tat Kulturbüro

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