

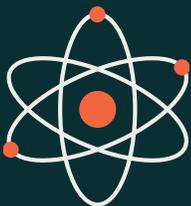
EQUAL OPPORTUNITIES IN SCIENCE

FESTIVAL BOOKLET
01.10.-20.12.2022



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MESSAGE FROM DR MARKUS LITZ DIRECTOR, GOETHE-INSTITUT MALAYSIA

Welcome to the 12th edition of the International Science Film Festival in Malaysia. In 2021, the festival reached more than 400 000 viewers in over 20 countries in Southeast Asia, South Asia, Africa, Latin America and the Middle East. In light of the COVID-19 pandemic, many screenings were held online with more than 60,000 views. The event focused on health and mental wellbeing and presented 127 films from 22 countries as official selection.

The Goethe-Institut, which is the official German cultural institute, is delighted to return with the 13th edition of the festival this year with our long-standing partners the Malaysian Ministry of Education, Association of Science, Technology and Innovation, Alliance Francaise Kuala Lumpur, Embassy of France in Kuala Lumpur, Women's Aid Organisation, Malaysian German Educators Association (MDLV), University Malaysia, SEAMEO STEM-ED, Ecocentric Transitions, Pusat Kokurikulum Terengganu, the Educational Cooperation Programme (BKD) and The Schools: Partners for the Future (PASCH). We are also extremely pleased to welcome the new corporate partner Rolls Royce supporting the festival. Together, we create hands-on experience for young audience in their interaction with science.

The theme this year is Equal Opportunities in Science. We strongly believe that equal opportunity is a state of fairness in which individuals are treated similarly, unhampered by artificial barriers or prejudices or preferences. Innovation resulting from science, technology, engineering and mathematics (STEM) fields have positively touched nearly every aspect of human life. This is especially relevant to Malaysia as we are a rich multicultural society with a very diverse social landscape that varies from

A total of 62 films have been chosen by the Malaysian juries and during the festival period 01 October to 20 December 2022, the films will be available free of charge on the VIMEO which can be streamed non-commercially in schools, universities and other educational venues throughout the country.

This year the festival is going hybrid with many planned activities for both online and also physical formats which will take place in several cities nationwide. This is only possible through the respectful coordinated efforts of all our partners.

I would like to thank all the parties and partners involved in this year's festival, all schools and universities, public or private enterprises, as well as volunteers. I hope you will enjoy the films and also the festival activities. May the Science Film Festival 2022 become another success!



GREETING MESSAGE FROM DR BICKY BHANGU PRESIDENT, SOUTH EAST ASIA, PACIFIC AND SOUTH KOREA AT ROLLS-ROYCE

The children and youths amongst us today hold the key to shaping the future of tomorrow. And as societies and businesses in the region chart towards a sustainable future, it is critical to build a young and diverse local talent pool in ASEAN, one of the most vibrant growth areas in the world.

That is why Rolls-Royce invests heavily in STEM education globally to get young people interested in science and engineering subjects.

This year, Rolls-Royce is proud to be a partner of the Southeast Asia edition of the Science Film Festival 2022 to promote scientific literacy amongst children and youths in the region.

In particular, the theme of this year's festival, 'Equal Opportunities in Science', is one that is close to our hearts. It is very much aligned with our company's philosophy to promote accessible STEM education.

It is not only important for us to find creative and engaging ways to get young people interested in STEM, but also to promote inclusivity and diversity in STEM education, especially amongst underrepresented groups within our society.

By embracing the differences that make us unique, we can develop creative ideas and spur further innovation.

Thank you to the educators, talented filmmakers, content creators and non-profit organisations who have joined us to champion this meaningful cause.

We believe investing today in tomorrow's talent will help to create meaningful solutions to solve some of the world's greatest challenges. And together, we can create pioneers of a better future.

Thank you.



JURY MALAYSIA



SURESH RAMASAMY

Science & Chemistry Teacher, SMK Medini,
Iskandar Puteri, Johor

Association of Science, Technology and
Innovation (ASTI)

Suresh Ramasamy is a Science and Chemistry teacher, currently teaching at SMK Medini in Iskandar Puteri, Johor. As a member of the Association of Science, Technology and Innovation (ASTI), he is involved in their programs to promote science and innovation among children throughout the schools in Malaysia. These programs include the National Science Fair for Young Children, Young Inventors Challenge and Critical and Creative Thinking Camps.



NISHA

Sustainability Facilitator

Ecocentric Transitions

Nisha is a sustainability facilitator. Her work focuses around curating content and programming activation engagements around environmental empathy towards behavior change. Inspired by people, wildlife, gamification and science communications she actively seeks out projects that allow for disruptive interventions for community-engaged conservation. In 2019, Nisha published RIMBA The Card Game to connect people to 30 Malaysian animals through play.



DR. YAP LENG LEE

Senior Lecturer

Faculty of Language and Linguistics, University of Malaya

Dr. Yap Leng Lee is a senior lecturer in German language with 20 years of experience and currently work at University of Malaya. In 2014, she was awarded the Outstanding Teacher Award by Majlis Amanah Rakyat (MARA). She was a licensed telc-Examiner from 2015-2021 and is presently licensed Ösd-Examiner as well as Chairperson of ÖSD-Malaysia. Learning German language is fun, so do science! Science is for EVERYONE regardless the field of study and SCIENCE should be imparted in each student as it is part of daily life. This knowledge is weighty as it enables students to engage actively in conversations/ discussions/ debates in German language. She wishes to inculcate science in her students and manoeuvres science as hooks in her teaching.



NARMA ABDUL KADIR

**President of Malaysian German
Teachers' Society**

Malaysian German Teachers' Society (MDLV)

Narma is a German Language Teacher with over 30 years of experience. In 2018, she was awarded the Excellent German Teacher Asia-Pacific, Australia and New Zealand Award for her contributions. Narma believes that to teach any language, it is important to have an extensive understanding of science, humanity, culture and nature. This is so that she will be able to ensure that her students will be able to articulate these complex concepts confidently and fluently. Just like her students, media like movies and short films play an important role in spreading awareness and shaping the world.



NAZREEN NIZAM

Director of Capacity Building

Women's Aid Organisation

Nazreen Nizam is the Capacity Building Director with the Women's Aid Organisation, working with the team to build empowered communities and advocate gender equality. A feminist socialist at heart, she has an immense zeal for working with people to improve the well-being of the community and is committed to contributing in the creation of better realities for humankind.



AMES SIA

Digital Content Developer

Women's Aid Organisation

Ames is an experienced Content Developer with a demonstrated history of working in the civic & social organization industry. Skilled in Graphic Design, Motion Graphics, and Illustration. He supports #TeamWAO in organizing and executing various campaigns, fundraising and projects.



GAAYATHREY BALAKRISHNAN

Capacity Building Officer

Women's Aid Organisation

With a background in Psychology, Gaayathrey Balakrishnan believes in approaching trauma through a survivor-centric lens. Currently, she is a Capacity Building Officer in WAO focusing on training and conducting workshops on Gender-Based Violence.



NATASYA NADZMI

Capacity Building Officer

Women's Aid Organisation

With a background in Social Work, Natasya is passionate in empowering survivors of abuse and those in marginalized communities. She now conducts training and workshops on Gender-Based Violence and is also the team's focal person for government related projects.

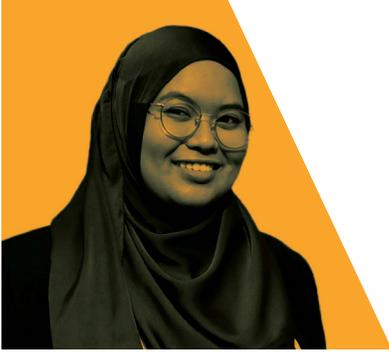


YEAP SI XIN

Capacity Building Officer

Women's Aid Organisation

With a background in Psychology, Si Xin is passionate about girls and youth empowerment and human rights education. Together with the team at WAO, she currently carries out training and community outreach programmes to promote gender equality and advocate for the prevention of gender-based violence within various communities in Malaysia.



YASMIN HARIZAL

WAO Ambassador

Women's Aid Organisation

Yasmin has a background in law and has recently completed her 9 months chambering before being qualified to be an Advocate and Solicitor in Malaysia. She started to join community engagement in her final year during her undergraduate studies in law and is now currently a WAO Ambassador in hopes to create more awareness about women's rights.



REIA KOAY

WAO Youth Engagement Volunteer

Women's Aid Organisation

Reia is a student who is involved in the International Award programme where she volunteers with different organisations that support different communities. She enjoys volunteering her services to help with different causes such as Colour Away Covid, Kebun Kebun, and JREC. She is excited to be part of WAO's work.



DR. VALÉRIE BARBOSA SOLOMIEU

**Attachée for Science and Higher Education,
French Embassy in Malaysia Co-director of the
Malaysia-France University Centre (MFUC)**

Alliance Francaise Kuala Lumpur

*Dr. Valérie Barbosa Solomieu is a scientist with training in oceanography/marine biology, and a specialty in molecular virology. She completed her PhD at the Biological Research Center of the Northwest (CIBNOR, Mexico), with a dissertation on the development of molecular tools for the detection of viral agents in Pacific oysters (*C. gigas*). As of September 1 st , 2021, she works as Attachée for Science and Higher Education at the French Embassy in Malaysia, and she is also the co-director of the Malaysian-French University Centre (MFUC). She is actively involved in the implementation of bilateral and regional collaboration projects in strategic areas including one health approaches, environmental protection and the fight against climate change.*

FESTIVAL THEME 2022: EQUAL OPPORTUNITIES IN SCIENCE

FILM CATEGORIES

FAMILY
EDUTAINMENT

NON-VERBAL &
SCIENCE SHORTS

ECOLOGY &
ENVIRONMENT

CULTURE &
HISTORY

NATURAL SCIENCE,
LIFE SCIENCE &
TECHNOLOGY





CLIMATE FACTS

Synopsis/ "Climate Facts" is a collaboration between climate researcher Prof. Stefan Rahmstorf from the Potsdam Institute for Climate Impact Research and media artist Marcus Grysczok with stop motion animation by Marcus Grysczok and soundtrack by Dirk Markham. Modern global warming is catapulting us out of the stable climate of the Holocene into unmapped waters. Warming is caused by fossil fuel use, and to a lesser extent by agriculture and deforestation. The consequences of warming include more frequent and severe extreme events, such as deadly heat waves, devastating droughts, heavy rains with flooding or more violent tropical cyclones, ... also a rise in sea level due to melting continental ice and thermal expansion of sea water.

Many millions of people are already suffering from these climate impacts. We can stop global warming by stopping the emission of greenhouse gases, especially carbon dioxide. For good reasons, this was unanimously agreed by almost all countries at the Paris Agreement, which has the goal of keeping global warming well below the two degree limit. If possible even below 1.5 degrees. Today, we are already at 1.2 degrees global warming.

DIRECTOR Marcus Grysczok **PRODUCED BY** Bauhaus Universität Weimar
RUNNING TIME 3 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES Secondary School (12-16)

LET'S MAKE A DIFFERENCE! AN OVERVIEW

Synopsis/ As part of the initiative 'Schools: Partners for the Future' (PASCH), the Goethe-Institut Indonesia organized two digital workshops in July and August on the topics "Become a sustainability expert! Avoiding Plastic" and "Becoming a Sustainability Expert! Solar Energy".



DIRECTOR Achmad Ubaidillah **PRODUCED BY** Goethe-Institut Indonesien-
RUNNING TIME 3 min. **COUNTRY** Indonesia **YEAR** 2022
AGE GUIDELINES Secondary School (12-16)



MY LIFE AS A PIECE OF SPACE DEBRIS

Synopsis / Did you ever stop and think what life is like for a piece of Space Debris?

DIRECTOR Damien Donnelly **PRODUCED BY** Damien Donnelly
RUNNING TIME 4 min. **COUNTRY** Ireland **YEAR** 2021
AGE GUIDELINES Secondary School (12-16)



ANIMATED GIFS: CELEBRATING SCIENTIFIC GENIUS



Synopsis / The film explores science of the 1832 invention of Phenakistoscopes by Plateau and von Stampfer. It then shows a way of children extending their understanding by hand drawing and making their own in a creative workshop using templates.

DIRECTOR Stuart Taylor **PRODUCED BY** Stuart Taylor
RUNNING TIME 5 min. **COUNTRY** UK **YEAR** 2022
AGE GUIDELINES Primary School (9-11)

IN NATURE

Synopsis / In nature, a couple is a male and a female. Well, not always! A couple is also a female and a female. Or a male and a male. You may not be aware of it, but homosexuality isn't just a human story.

DIRECTOR Marcel Barelli **PRODUCED BY** Nadasdy Film
RUNNING TIME 5 min. **COUNTRY** Switzerland **YEAR** 2021
AGE GUIDELINES Primary School (9-11)



GUB CONSERVATION CHANNEL - SEA LEVEL RISE

Synopsis/ Climate change and sea level rise are on everyone's lips - a highly relevant issue. Today, we will take a look at the situation at the two poles of the Earth, where by far the most ice on Earth is located. What would happen if that ice melted? Will the sea level rise in the same way everywhere? Are there differences? Let's find out!

DIRECTOR Maike Fritz **PRODUCED BY** GUB e.V.
RUNNING TIME 5 min. **COUNTRY** Germany **YEAR** 2022
AGE GUIDELINES Primary School (9-11)



GUB EXPLORER CHANNEL - AIR CUSHION GLIDER

Synopsis/ A hovercraft is an ingenious thing. Gliding almost weightless over the waves or even solid land, modern technology makes this dream possible. You can imitate the principle of these air gliders in a simple model. Construct a cool hovercraft from everyday materials and let it whiz across the ground on a wafer-thin layer of air.



DIRECTOR Maike Fritz **PRODUCED BY** GUB e.V.
RUNNING TIME 5 min. **COUNTRY** Germany **YEAR** 2022
AGE GUIDELINES Primary School (9-11)

METHANE - THE INVISIBLE DANGER

Synopsis/ Methane is formed over millions of years during decay processes of dead plant and animal remains under exclusion of air at the bottom of lakes and oceans. At low temperatures and high pressure, it becomes methane hydrate, which is very rich in energy. In this video, we explain how methane can form explosion craters.

DIRECTOR Christian Schmidt **PRODUCED BY** Bilderfest GmbH
RUNNING TIME 5 min. **COUNTRY** Germany **YEAR** 2022
AGE GUIDELINES Secondary School (12-16)



A MOSQUITO FOBADA

Synopsis / "A Mosquito Fobada" is the story of a very hungry little mosquito. We accompany her in her search for blood to quench her hunger. But her mission becomes a race against the wise Angolan girls and boys, who bravely fight against a possible bite of the mosquitos that can bring dangerous diseases. What did the Angolan children do to thwart the mosquito fobada?

DIRECTOR Multiple Directors **PRODUCED BY** Goethe-Institut Luanda
RUNNING TIME 5 min. **COUNTRY** Angola **YEAR** 2021
AGE GUIDELINES Primary School (9-11)

ICE AGE-MYSTERY: TOO LAZY? WHY GIANT GROUND SLOTHS WENT EXTINCT?

Synopsis / During the Ice Age, some mammals were particularly large. The giant sloth had adapted very well to the climatic conditions. The reason for its extinction was unclear for a long time - until researchers like forensic scientists examined the footprints. Humans probably killed most of the animals after the species was already stressed by climatic changes. Today's sloths are small and have also survived because of idiosyncrasies.



DIRECTOR Florian Breier/Mathias Tertilt **PRODUCED BY** Bilderfest GmbH
RUNNING TIME 5 min. **COUNTRY** Germany **YEAR** 2020
AGE GUIDELINES Secondary School (12-16)



MICROPLASTICS POLLUTION

Synopsis/ This short hybrid film (animation and film footage) outlines the efforts of a team of scientists in both the UK and Malaysia to track the problem of microplastics pollution in water, sand and soil, using a low cost and rapid testing approach developed at the University of East Anglia. The film also covers the ways in which this international project has reached out to local communities, NGOs, and policy-makers in Malaysia and beyond to raise awareness and to advocate for change in dealing with the serious problem of plastics and microplastics pollution in the environment.

DIRECTOR Christine Cornea **PRODUCED BY** UKRI GCRF Translation Funds, University of East Anglia, Norwich, Norfolk, UK **RUNNING TIME** 6 min.
COUNTRY UK **YEAR** 2021-22 **AGE GUIDELINES** Secondary School (12-16)

GUB EXPLORER CHANNEL - FLOWER COCKTAIL

Synopsis/ Plants need water. How they drink it and where the water ends up everywhere in the plant, i.e., is stored, is something you can easily investigate. Mix a strong cocktail for a bouquet of flowers and put the bouquet or individual flowers in it. The result can be seen - and sometimes even tasted!



DIRECTOR Maike Fritz **PRODUCED BY** GUB e.V.
RUNNING TIME 7 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES Primary School (9-11)



LAKOU KAJOU - REDUCE! REUSE! RECYCLE!

Synopsis / While playing outside, Lili, Tilou, Ema, Jòj and Fara learn to respect their “lakou” (neighborhood yard) and keep it beautiful. Together with Zando the Gecko and Leyon the Book, they clean up the space using brooms made from used plastic bottles. During the process they learn about the Three Rs—Reduce, Reuse and Recycle—and the contribution children can make to protecting the environment by producing less trash! The friends take the lessons to heart. Lili surprises everyone when she makes a bracelet from found objects and Jòj re-considers throwing out some trash after realizing he can make it into a planter. This episode presents part of the series’ science curriculum which includes objectives related to the environment and helping children to become wise stewards of natural resources.

DIRECTOR Alexandrine Benjamin **PRODUCED BY** Blue Butterfly Collaborative **RUNNING TIME** 7 min. **COUNTRY** Haiti **YEAR** 2020
AGE GUIDELINES Primary School (9-11)

OPERATION MHORR

Synopsis / In 1971, in the midst of the war in the Western Sahara region, a group of enthusiastic conservationists, led by the scientist José Antonio Valverde, devised what ultimately became known as “Operation Mhorr”.

Upon discovering that the Saharan fauna was being exterminated and that some species, such as the mhorr gazelle, could become extinct, they conceived a rescue operation, which consisted on transferring specimens to the Acclimatization Institute of Almeria for their reproduction in captivity. To host them, the Saharan Fauna Rescue Park was created, where captive breeding programs were carried out, thus ensuring their survival, and reaching a population size that has allowed developing various projects to reintroduce gazelles into their natural habitats over the years. Today, fifty years later and under the protection of the Spanish National Research Council (CSIC), the legacy of these pioneering altruists is still alive.



DIRECTOR Luis Navarro **PRODUCED BY** CSIC Estación Experimental de Zonas Áridas (EEZA) **RUNNING TIME** 7 min. **COUNTRY** Spain **YEAR** 2021
AGE GUIDELINES Secondary School (12-16)



HOUSE OF LITTLE SCIENTISTS - BUBBLES

Synopsis / Bubbles are always spherical. Why is that so? Find out in this episode of "House of Little Scientists".environment.

DIRECTOR Warinnet Termsirikamol **PRODUCED BY** Be Amazing Entertainment

RUNNING TIME 9 min. **COUNTRY** Thailand **YEAR** 2021

AGE GUIDELINES Early Learners (5-8)

HOUSE OF LITTLE SCIENTISTS - SNAILS

Synopsis / Snails use a special substances to move. What does it look like? And what is so special about this substance? Find out in this episode of "House of Little Scientists".



DIRECTOR Warinnet Termsirikamol **PRODUCED BY** Be Amazing Entertainment

RUNNING TIME 9 min. **COUNTRY** Thailand **YEAR** 2021

AGE GUIDELINES Early Learners (5-8)



NINE-AND-A-HALF - YOUR REPORTERS: I AM DEAF - NAVINA SHOWS US HER WORLD

Synopsis/ Birdsong, hearing the radio or the doorbell - such, actually everyday things are not possible for Navina. That's because the 13-year-old has been deaf since birth. But that doesn't stop her from training in the athletics club, attending a dance club at school and spending hours chatting with her cousin and best friend Luana. To do this, the two use German sign language. Reporter Jana meets the two friends and attends a concert by Julia Engelmann together with them. How can you experience music without hearing it? And how does German Sign Language work? This and more is shown in this episode of 'nine-and-a-half'.

DIRECTOR Julia Müller **PRODUCED BY** WDR/tvision, Manuela Kalupke
RUNNING TIME 10 min. **COUNTRY** Germany **YEAR** 2019
AGE GUIDELINES Primary School (9-11)

NINE-AND-A-HALF - YOUR REPORTERS: LIFE WITH A PROSTHESIS - ELIAS HAS ARTIFICIAL LEGS

Synopsis/ Riding a scooter, running or simply walking up a hill - such everyday things are not natural for 11-year-old Elias. He lost both legs in an accident and has been using prostheses ever since. But how do you live with artificial body parts? Robert accompanies Elias in his everyday life and visits a "walking school" with him, where Robert is allowed to try out a modified prosthetic leg himself. And then there is a special event coming up: Elias gets his first swimming prostheses, because his favorite hobby is swimming. How do the new prostheses feel? And what could artificial body parts look like in the future? This episode of "nine-and-a-half" shows you all this and more.



DIRECTOR Sarah Schreiter **PRODUCED BY** WDR/tvision, Manuela Kalupke
RUNNING TIME 10 min. **COUNTRY** Germany **YEAR** 2019
AGE GUIDELINES Primary School (9-11)



NINE-AND-A-HALF - YOUR REPORTERS: UNIMAGINABLE! - WHAT THOUGHTS CAN MOVE

Synopsis / Jana is invited to a very special ping-pong duel today. The challenge: It is played without a racket, instead only with the power of thought! Her opponent is brain researcher Prof. Dr. Surjo Soekadar - and he's not just good at playing mind-ping-pong. With his research, he enables paralyzed people to move their hands again. After a little training, Jana is even allowed to try out for herself how this works. She also meets Phillip. He lost his left arm in an accident and wears a different kind of high-tech prosthesis. How can Phillip move the fingers of his prosthesis with his mind? Why a mirror helps him do it? And what is a thought anyway? That's what this episode of "nine-and-a-half" shows.

DIRECTOR Sarah Schreiter **PRODUCED BY** WDR/tvision, Manuela Kalupke
RUNNING TIME 10 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES Primary School (9-11)

NINE-AND-A-HALF - YOUR REPORTERS: WHAT IS BIONICS? - WHEN RESEARCHERS TAKE A LEAF OUT OF NATURE'S BOOK

Synopsis / In bionics, researchers cheat without restraint! In birds, sharks, chameleons and even plants. Our world is now full of useful inventions from the field of bionics - without us even knowing it. It's time to take a closer look! In bionics, a mixture of biology and technology, special features from nature are recognized and then used in technology. Reporter Jana visits a company that deals with this on a daily basis and invents bionic robots. Here, robots that look like animals fly, swim and hop around. Jana even gets to build a bionic robot herself. But bionics is not just in robots. Whether Velcro fasteners, airplanes or parachutes - nature was copied for all these inventions. However, before such bionic discoveries can make our everyday lives easier, research often has to be carried out for years. This is exactly what is happening at the Albert Ludwig University in Freiburg, where researchers are taking a close look at plants. For example, they have deciphered the super-fast movements of carnivorous plants. What bionic invention have the scientists come up with? Will Jana's bionic robot really work? And what's the point of robots that look like fish, chameleons or kangaroos? That's what this episode of "nine-and-a-half" is all about!



DIRECTOR Sarah Schultes, Miriam Witsch **PRODUCED BY** WDR/tvision, Manuela Kalupke **RUNNING TIME** 10 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES Primary School (9-11)



YANKAW

Synopsis/ The film revolves around the creative minds of the fisher folks in Laguna, Philippines. With their resourcefulness and intuition to their daily struggles, they were able to address their challenges as fishermen in Laguna de Bay by their innovation that is commonly known as “Yankaw”. This film reveals that some scientists are found not only in laboratories but also in unexpected places that the majority could never imagine.

DIRECTOR Khristine Sandoval **PRODUCED BY** Tawid Production
RUNNING TIME 10 min. **COUNTRY** Philippines **YEAR** 2021
AGE GUIDELINES University and General Public

INVISIBLE FORCES

Synopsis/ Riding a scooter, running or simply walking up a hill - such everin the virus episode, Diorita catches a horrible cold. In the 3 billion years they have known each other, Zircon has never seen her this sick. Worried about his friend, he remembers the humans have a trick that may help them, so he turns himself into a white blood cell and goes to learn all about viruses and vaccines. Of course, Diorita can't just wait on the sidelines. When she sees Zircon in trouble, she also becomes a white blood cell and goes to help. They band together to battle the virus.



DIRECTOR Juan Camilo Ramírez Escobar **PRODUCED BY** Aseneth Suárez,
 UT FUIN, Canal Trece and Min Ciencias **RUNNING TIME** 10 min. **COUNTRY**
 Columbia **YEAR** 2021 **AGE GUIDELINES** Primary School (9-11)



LITTLE TEASPOON OF SUGAR

Synopsis/ It's a new school year and Lesedi has just started Grade 8. Our young netball star is hopeful about her high school years netball try-outs, hanging out with friends and regaling tales of scary high school teachers to her father. But all those plans come to a sudden halt when Lesedi finds out she has Type one Diabetes. With her whole life set before her, high school doesn't feel like it'll ever be the same.

DIRECTOR Kabelo Maaka **PRODUCED BY** Dr Tshepo P. Maaka, Cabblow Studios
 and supported by Gauteng Film Commission **RUNNING TIME** 12 min. **COUNTRY**
 South Africa **YEAR** 2021 **AGE GUIDELINES** Primary School (9-11)



SCI-PY REPORTER: EVERY CHILD A SCIENTIST

Synopsis/ Our world is a wonderful mix of different species with their own unique strengths. Humans have championed their diversity and created an environment of tolerance, inclusivity and sustained progress. In this episode, our reporter, Mira meets three children who have varied interests and come from different backgrounds. But they are deeply connected through their passion for science and have embraced the opportunities in front of them. Follow Mira to find out more.

DIRECTOR Peer Varma **PRODUCED BY** Sci-PY; Openivy Media
RUNNING TIME 12 min. **COUNTRY** India **YEAR** 2022
AGE GUIDELINES Secondary School (12-16)



ZENITH

Synopsis/ Zenith's 2021 season consists of three standalone short films: "The Great Voyage" follows a trail of curiosity and fascination with the cosmos through the ages. It is a story of how we set our sights on the Ocean and discovered the universe! "The Many Faces of Mars" is a story of how planet Mars was transformed from a menacing red dot into a new frontier for humanity. "Stellar Tales" shows how taking a closer look at the night sky is part of what made our civilization flourish.



DIRECTOR Ratimir Rakuljic **PRODUCED BY** Triaxial Studio
RUNNING TIME 13 min. **COUNTRY** Croatia **YEAR** 2021
AGE GUIDELINES Secondary School (12-16)

AKESI AND THE CONGO RIVER

Synopsis/ Akesi and the Congo River is a three-part animated docu-fiction series following the coming-of-age adventures of Akesi, an 8-year-old Congolese boy who is having a hard time coping with the loss of his brother. Led by his family's totem animal—a gecko—Akesi explores the topics of grief, trust, and bravery with the help of the enchanted Congo River. On his journey, he learns about his home country's history, mythologies, and ecosystem through very important life lessons.

DIRECTOR Said Abitar & Curt Fortin **PRODUCED BY** Tales Of Us
RUNNING TIME 15 min. **COUNTRY** Congo, Germany **YEAR** 2021
AGE GUIDELINES Primary School (9-11)



PLASTIC AGE - FOREVER?

Synopsis/ Will our current age one day be identified as the "Plastic Age" by archaeologist of the future? Because of the plastic waste we dump into our soils currently, originating from all areas of our lives - Plastic objects that will still be perfectly preserved in 500 - 1000 years. Plastic waste and microplastics in the oceans are visible and a topic of public debate already - big projects have been launched to try and clean up the garbage islands in the seas - but the plastic waste we introduce into our local local soils is a much bigger problem for environment and agriculture, as well as food production. Once underground the waste becomes invisible to us, little awareness or will for countermeasures currently exist. The film depicts these problems and shows alternatives and potential solutions.

DIRECTOR Sebastian Postl & Sebastian Pichelhofer **PRODUCED BY** Universität für Bodenkultur Wien **RUNNING TIME** 19 min. **COUNTRY** Austria **YEAR** 2021 **AGE GUIDELINES** University and General Public

PIA AND WILD NATURE - DIVING INTO THE SEA GRASS MEADOW

Synopsis/ Pia explores a seagrass meadow off the coast of Italy - an exciting habitat that most people hardly notice. Yet it is called the "nursery of the sea" and is enormously important for the protection of our coasts and our climate. Above and below the water, Pia takes a close look at a wide variety of creatures that specialize for life in the seagrass thicket. While doing so, she discovers how closely the animals here are interwoven and how they can be better protected in the future - from the cute, rice-grain-sized green velvet snail to the elegant loggerhead turtle.



DIRECTOR Katja Schübl **PRODUCED BY** Text und Bild Medienproduktion/BR/Kika **RUNNING TIME** 25 min. **COUNTRY** Germany **YEAR** 2021 **AGE GUIDELINES** Primary School (9-11)



THE INTEGRATIVE MEDICINE

Synopsis/ Conventional medicine can treat many illnesses, but not always or not always exclusively. In some cases, patients turn to additional therapies, such as yoga, qigong or meditation. Are they in conflict with traditional medicine? Not necessarily. Some doctors support these therapies, even in the case of grave illnesses like cancer. These complementary tools are part of so-called integrative medicine.

DIRECTOR Patrice Goldberg and Cyril Fleury **PRODUCED BY** Patrice Goldberg (Matière Grise, RTBF) **RUNNING TIME** 25 min. **COUNTRY** Belgium **YEAR** 2021 **AGE GUIDELINES** University and General Public



PATIENT 4.0

Synopsis/ Medicine today, the way in which we receive treatment and the treatment we receive, is changing dramatically. Computers, smartphones and artificial intelligence are used more and more to assist and sometimes even replace doctors. Helping with rehabilitation, predicting future diseases, preventing relapses following surgery... We are becoming digital patients, patients 4.0! Is this good news or bad? You decide.



DIRECTOR Patrice Goldberg and Cyril Fleury **PRODUCED BY** Patrice Goldberg (Matière Grise, RTBF) **RUNNING TIME** 25 min. **COUNTRY** Belgium **YEAR** 2021 **AGE GUIDELINES** University and General Public

BYKIDS: FAITH'S WORLD

Synopsis/ Sixteen-year-old Faith Guilbault from Baltimore, Maryland, loves skydiving, horseback riding, and has walked the runway at Fashion Week in New York City. She is also one of 61 million people in the United States living with a disability.

DIRECTOR Faith Guilbault **PRODUCED BY** BYkids
RUNNING TIME 27 min. **COUNTRY** USA **YEAR** 2020
AGE GUIDELINES Secondary School (12-16)



BYKIDS: FIRE IN OUR HEARTS

Synopsis / Jayshree Janu Kharpade of India was taken out of school at 7 years old so that she could raise her four younger brothers and contribute to her parents' labor at a brick kiln site. Exceptionally bright and motivated, she pleaded for years with her parents to let her return to her studies. They finally agreed, and she soon rose to the top of her school. Now aged 16, she illuminates the immense social and economic potential of educating girls in the developing world.

I WITNESS: VIRUS HUNTERS

Synopsis / With the Coronavirus wreaking havoc left and right, it has become a race amongst scientists to look into strains of the virus that have the potential to be passed on from animals to humans. They are looking for a specific species of bats that can be found in the Philippines. The Filipino scientists know that bat research is riskier now because the bats may be infected with the virus. But just like the heroes on the front lines of this pandemic, some Filipino scientists brave the mountains at night, armed with the hope that their efforts may have the potential to save many lives. Pandemic or not, this documentary brings hope to a possible breakthrough that will advance the studies on Coronavirus and other related viruses that may affect humans. Apart from their brilliance and courage, the tenacity of Filipino scientists in discovering solutions at the risk of their own lives is venerable.



DIRECTOR NA **PRODUCED BY** GMA Network, Inc. **RUNNING TIME** 26 min. **COUNTRY** Philippines **YEAR** 2021 **AGE GUIDELINES** University and General Public

DIRECTOR Jayshree Janu Kharpade **PRODUCED BY** BYkids **RUNNING TIME** 27 min. **COUNTRY** India **YEAR** 2015 **AGE GUIDELINES** Secondary School (12-16)



I WITNESS: CROWN OF THORNS

Synopsis/ Recently, an outbreak occurred in the province of Camarines Norte in the Philippines. It involved the destruction of coral reefs nestled on the seabed of the Pacific Ocean. The culprits are the growing number of species called crown of thorns. They attach themselves like glue to the corals slowly eat them, thus killing them in the process. Coral reefs are essential because they provide protection and shelter for different marine species. However, the crown of thorns increases in number because they lay thousands of eggs. Destruction of the coral reefs is quickly spreading. Art Andaya, a native of Camarines Norte, volunteered to help in curtailing the population of the crown of thorns.

He gathered a group of residents and asked for help from the Local Government Unit and Non-Government Organizations to provide them with resources. They dive each day to detach the crown of thorns from the stems of the corals. I-Witness host Atom Araullo dives with Art and his team to remove the crown of thorns, and they find out that most of the corals are now on the brink of death if the problem is not addressed.

DIRECTOR NA **PRODUCED BY** GMA Network, Inc. **RUNNING TIME** 28 min. **COUNTRY** Philippines **YEAR** 2021 **AGE GUIDELINES** University and General Public

ECOGUARDIANS OF THE KAHUZI-BIEGA NATIONAL PARK

Synopsis/ The Kahuzi-Biega National Park, located in the South Kivu Province of the Democratic Republic of the Congo, was established in 1970, and became a World Heritage Site in 1980. It is managed by the Congolese Nature Conservation Institute, ICCN, which trains and employs eco-guards to care for the park. This film is a look at the men and women who make great sacrifices to protect something that most of us will never see, but from which all of us benefit. Many important and endemic characteristic species live here, including the critically endangered Eastern lowland gorilla, also known as the Grauer's gorilla.

Due to displacements during the Rwandan genocide, the First and Second Congo Wars from 1996 to 2003 and years of civil unrest, increasing human population in the region resulting in habitat loss and hunting, in 1997 the park was put on the 'in danger' list of World Heritage Sites. To ensure the survival of these gorillas is one of the major challenges of the complex job that the ICCN eco-guards do every day.



DIRECTOR Cintia Garai & Robert Carrubba **PRODUCED BY** Wildlife Messengers **RUNNING TIME** 29 min. **COUNTRY** Democratic Republic of Congo **YEAR** 2021 **AGE GUIDELINES** University and General Public



PLAN B: FINALLY QUIET - HOW EVERYDAY LIFE BECOMES QUIETER

Synopsis/ Loud trucks, planes taking off or rattling freight trains: Noise makes us sick. But it doesn't have to be that way. There are innovative solutions that reduce noise. So-called "crossbars" are a great relief for many city dwellers. These are new buildings that close gaps between rows of houses to keep out noise.

DIRECTOR Veit Bentlage **PRODUCED BY** Doclights GmbH
RUNNING TIME 30 min. **COUNTRY** Germany **YEAR** 2022
AGE GUIDELINES University and General Public

PLAN B: SOCKS MADE FROM CO2 - HOW A CLIMATE KILLER CAN BECOME USEFUL

Synopsis/ You can eat it or make clothes out of it: The climate killer CO2 can even be useful to humans. Forward thinkers are developing surprising concepts for this. Industry in particular is under pressure to make progress on climate protection: That's why a new technology is being developed at the Leverkusen chemical site. Liv Adler wants to recycle unavoidable CO2 emissions and turn them into products, such as socks!



DIRECTOR Frédérique Veith **PRODUCED BY** Spiegel TV GmbH
RUNNING TIME 30 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES University and General Public



WITH HEART AND HIGH TECH - HOW PEOPLE MASTER CHALLENGES

Synopsis/ Skiing blind, playing drums without a hand, lifting twice as much: It sounds like a miracle, but technology makes it possible. Resourceful minds are developing just the right aids for the job.

DIRECTOR Katja-Christiane Vogler **PRODUCED BY** AUTENTIC GmbH
RUNNING TIME 30 min. **COUNTRY** Germany **YEAR** 2019
AGE GUIDELINES University and General Public

BYKIDS: HOME IS WHERE YOU FIND IT

Synopsis/ Two renowned filmmakers, Chris Zalla (2007 Sundance Grand Jury Prize winner) and Neal Baer (Executive Producer of Law & Order: SVU), went to Maputo, Mozambique in August 2007, to help a child who had lost both parents to AIDS make a film about his life. With Chris and Neal, 16-year-old Alcides Soares learned the art of filmmaking and was able to tell his story as a boy living alone in the world. Alcides' life reflects that of an entire generation of Mozambican children – over 500 000 of them having lost their parents to AIDS.



DIRECTOR Jayshree Janu Kharpade **PRODUCED BY** BYkids
RUNNING TIME 32 min. **COUNTRY** Mozambique **YEAR** 2015
AGE GUIDELINES Secondary School (12-16)



TERRA X: WONDERFUL WORLD OF CHEMISTRY - THE BUILDING BLOCKS OF NATURE

Synopsis/ The fact that solids could become liquid and liquids become gas inspired the early alchemists to apply such an art of transformation themselves. Mostly in search of the "Philosopher's Stone" that would transform base metals into gold. Even if all the attempts came to nothing, many an aberration yielded important insights. For example, in 1669, Hennig Brand tried to extract the philosopher's stone from urine and discovered phosphorus. Many elements were found only after a chain of errors. At the end of the 19th century, a woman first began to fill in the gaps in the periodic table: Marie Curie. She discovered the elements radium and polonium. Until the end, she was convinced of the benefits of the radioactive radiation they emitted - for the treatment of tumors, for example. Curie did not live to see the first atomic bomb dropped. In this episode of the series, Mai Thi Nguyen-Kim explains the basics of a fascinating science that many people are skeptical about. "For many, chemistry is just a hated school subject that you couldn't drop fast enough, yet it explains this crazy fascinating world we live in," says the science journalist.

DIRECTOR Luise Wagner **PRODUCED BY** Gruppe 5 Filmproduktion
RUNNING TIME 43 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES University and General Public

EXPEDITION GERMANY - THE LEGACY OF ROCKS

Synopsis/ From the picturesque Baltic Sea through wooded hilly landscapes to the majestic mountain peaks of the Alps, Germany's landscapes could hardly be more different. Hidden in them are witnesses to their formation - stones are the geological memory of our homeland. From north to south, geologist Colin Devey embarks on a thrilling hike through key geological regions of Germany. With the help of fascinating 3D animations, he reveals geological connections that still have a strong influence on our modern life today. Colin Devey's journey shows how we humans have made use of the Earth - be it the coal in the Ruhr area, the salt under northern Germany or the mineral treasures from the Ore Mountains. The geologist goes underground, takes to the air and crosses mountains. He reads ancient traces in the stones and landscapes that are only visible to the initiated.

Hidden in them is evidence of drastic geological events - ice ages, deserts, rivers and seas, mountain formation and volcanic activity. Over millions of years, these primal forces have repeatedly changed the face of Germany and made it one of the most diverse landscapes in all of Europe.



DIRECTOR Ole Gurr **PRODUCED BY** K22film and ZDF
RUNNING TIME 44 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES University and General Public



THE STORY: WIND POWER - CURSE OR BLESSING?

Synopsis/ Hardly any other topic is as controversial in North Rhine-Westphalia as the expansion of wind energy. Wherever wind turbines are erected, local residents often fear for their health or complain about disadvantages for the environment. They feel betrayed and cheated, and suspect that politicians are making common cause with investors and landowners. As a result, approval procedures for new wind turbines are delayed for years, and it is becoming increasingly difficult to find new building sites. If this trend continues, the dream of an energy supply without coal and nuclear could soon be over. But what is the truth behind the accusations of opponents of wind power, who see the health of local residents threatened by infrasound and shadow flicker? And how valid are the complaints of conservationists who describe wind turbines as "bird shredders" and report wanton destruction of the nests of rare bird species at planned new wind turbine sites? Along the flashpoints of the conflict, the story goes in search of clues: Which allegations are true? What is the cause of the fears? But above all, are there possible solutions that take the concerns of citizens and nature conservation just as seriously as the need for a climate-friendly energy supply?

DIRECTOR Herbert Ostwald **PRODUCED BY** Produced by Längengrad Filmproduktion GmbH on behalf of Westdeutscher Rundfunk
RUNNING TIME 44 min. **COUNTRY** Germany **YEAR** 2020
AGE GUIDELINES University and General Public

THE SIXTH MASS EXTINCTION: LAST LETTER FROM WILSON

Synopsis/ The last letter from a 92-year-old biologist called 'a new Darwin' to humanity. Numerous species are disappearing due to human activities such as using fossil fuels, habitat destruction, overfishing, etc. There have been five mass extinctions in 4.6 billion years of Earth history, and now the sixth mass extinction is underway due to human action. Edward Wilson(1929-2021), who watched the prelude to disaster, warns of the future of humankind with an urgent voice.



DIRECTOR Pyeonsoon Choi **PRODUCED BY** EBS
RUNNING TIME 47 min. **COUNTRY** Korea **YEAR** 2021
AGE GUIDELINES University and General Public



GENDER AND SCIENCE

Synopsis / Reexamining the meaning of gender through cutting-edge science about the biology of humankind. A certain substance puts the sex of our bodies and brains in constant flux. Recent research has revealed that notions of there being a “male brain” or a “female brain” are mistaken. In ages past, a typical woman menstruated about 50 times in her life—in developed countries, the figure is 450 times, and menstruation causes an estimated 4.3 billion USD of lost productivity each year. Did menstruation develop as an advanced survival strategy for mothers and their babies? Evolutionary biology suggests the answer is yes. Can these new studies help lead us to a society where everyone can flourish, regardless of gender?

DIRECTOR Masatoshi Kaneko, Kaoru Murayama **PRODUCED BY** NHK
RUNNING TIME 49 min. **COUNTRY** Japan **YEAR** 2021
AGE GUIDELINES University and General Public

MIRACLE BODY: BREAKING LIMITS WITH HYPER-ADAPTABILITY

Synopsis / How far can a human go to adapt? “Miracle Body” uses cutting-edge video technology to explore the extraordinary bodies and minds of top athletes. Tatyana McFadden is a wheelchair Paralympian who was born paralyzed from the waist down. A member of Team USA, she is a legendary figure in para track and field: At the last Paralympic Games in Rio de Janeiro, she won medals in all distances, from the 100 meters to the marathon, and has conquered the world’s four major marathons multiple times. To understand the secrets of an almost superhuman dominance, we conducted a scientific analysis of her body to reveal what sets her apart and allows her to achieve such incredible feats. What gives her speed in the wheelchair is not just raw strength, but also an exceptional command of her arms. Propelling the wheelchair with precision that seems more machine like than human—she is able to do this because of remarkable adaptations within the body. In fact, her brain has rewired itself to compensate for lost ability, a phenomenon called “hyper-adaptability”. Born without certain physical abilities and under deprived circumstances, she adapted, and a “miracle body” was born. As the COVID-19 pandemic holds much of the world in a frightening standstill, we offer this story about the wondrous potential of the human body to overcome seemingly impossible odds.



DIRECTOR Yoriko Koizumi **PRODUCED BY** NHK
RUNNING TIME 49 min. **COUNTRY** Japan **YEAR** 2020
AGE GUIDELINES University and General Public



BEE WILD!

Synopsis/ They're some of our most effective pollinators. Living in bright wooden huts, producing honey and wax. Busy, beneficial and closely tied to human needs. But how do bees live in the wild? And why did they disappear from our forests? The film portrays the wild life of the honey bee in our forests and it shows the important role of this creature in nature.

DIRECTOR Jan Haft **PRODUCED BY** nautilusfilm GmbH, doclights GmbH, ARTE, NDR, Terra Mater **RUNNING TIME** 50 min. **COUNTRY** Germany
YEAR 2021 **AGE GUIDELINES** University and General Public

BIG BANG - THE CALL OF ORIGINS

Synopsis/ What does science tell us about our origins? How scientists can now answer these ancestral questions: who are we, and where do we come from? Through astronomy, this documentary takes us to the discovery of our most distant roots, and reminds us of the intimate link that exists between the past of the universe and our own existence. With the participation of six researchers: Sylvie Vauclair, Yaël Nazé, Christophe Galfard, Aurélien Barrau, Jean-Pierre Luminet and Etienne Klein.



DIRECTOR Dominique Regueme **PRODUCED BY** Produit par „Les Films du Hublot“, avec le soutien de Pictanovo, de la Région Hauts de France, et de la ville de Lille **RUNNING TIME** 51 min. **COUNTRY** France **YEAR** 2021
AGE GUIDELINES University and General Public



GREEN WARRIORS: SOIL THREAT

Synopsis/ Over the last 50 years, our use of phosphate based fertilizers has quadrupled. These are essential to modern agriculture, used especially for growing potatoes. Most fertilizers come from Morocco, where the pollution from phosphate mines is poisoning local drinking supplies, causing birth defects in animals and health problems in children. But also present in most phosphate-based fertilizer is cadmium, a toxic heavy metal linked to kidney and bone disease. A team of journalists, in collaboration with European scientists, set out to search for evidence of the extent of pollution in Morocco. They also want to see if the cadmium in these fertilizers is contaminating potatoes and entering the food chain. Their revelations will make the news and change the law. In this investigation, the Green Warriors team reveal the implications of our addiction to cheap fertilizer.

DIRECTOR Martin Boudot **PRODUCED BY** Premières Lignes
RUNNING TIME 51 min. **COUNTRY** France **YEAR** 2021
AGE GUIDELINES University and General Public

GREEN WARRIORS: COAL IN THE LUNGS

Synopsis/ Every year, 500 000 Europeans meet a premature fate due to air pollution. One of the main causes of this pollution is coal - a fuel that is still used in many European countries. And this air pollution has no borders - it spreads its contamination throughout the continent, where citizens fight every day for their basic right to breathable air. Many doctors have raised the alarm, but there is a lack of evidence to make real change. Together with scientists and citizens, a team of journalists sets out to search for evidence of air contamination. They will carry out a unique, one-of-a-kind scientific study: comparing the levels of carcinogenic pollutants found in the bodies of European children. Despite the hardships and an arrest by the police, after a year of investigations, their results make the headlines, force a government to act and will draw the attention of the European Parliament. Will the powerful coal lobby resist these revelations?



DIRECTOR Martin Boudot **PRODUCED BY** Premières Lignes
RUNNING TIME 51 min. **COUNTRY** France **YEAR** 2021
AGE GUIDELINES University and General Public



MORE LIFE - DECODING THE SECRET OF AGING

Synopsis/ Can the aging process be reversed - or even halted, altogether? If we manage to decode this final mystery of our human biology, we might soon be able to eradicate age-related illnesses like cancer, dementia and heart problems.

DIRECTOR Martin Koddenberg **PRODUCED BY** Deutsche Welle
RUNNING TIME 52 min. **COUNTRY** Germany **YEAR** 2022
AGE GUIDELINES University and General Public

THE RECYCLING LIE

Synopsis/ What really happens to our plastic waste once we put it in the recycling bin? As the plastic pollution crisis has become an international scandal, the biggest consumer goods brands on earth have declared they have a solution: recycling. But our plastic packaging is still more likely to end up being burned or dumped than recycled. We show how the oil, packaging and consumer goods industries spin the recycling fairytale to allow them to continue polluting without consequence. As we all pick up the bill for a world drowning in plastic, the film asks: Who is getting rich from this?



DIRECTOR Tom Costello **PRODUCED BY** a&o buero filmproduktion/The Why
RUNNING TIME 52 min. **COUNTRY** Germany, Denmark **YEAR** 2021
AGE GUIDELINES University and General Public



THE VIRUS WITHIN

Synopsis/ They are many. They are everywhere. And they are not killers. Viruses. These artists of survival are the engine of evolution - including that of humans. The film dives into the depths of the virosphere: scientists explore the role of viruses in the oceans, in the origins of life, in the human body. With viruses even severe bacterial infections can be cured. But they can also become dangerous - such as in the case of AIDS, Ebola or Covid-19, if nature and biodiversity are being destroyed. The film also shows how so-called "one-health" concepts try to keep the balance between humans and the world of viruses.

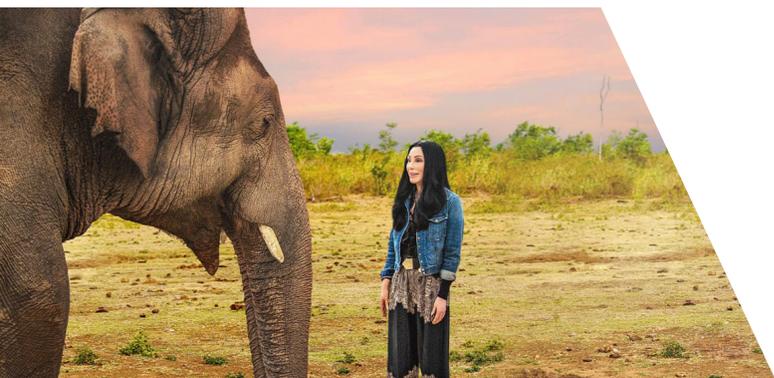
DIRECTOR Kurt Langbein und Florian Höllerl **PRODUCED BY** Langbein & Partner Media in Koproduktion mit Bayerischer Rundfunk/ ARTE, ORF, gefördert von Fernsehfonds Austria, Filmfonds Wien und Verwertungsgesellschaft für audiovisuelle Medien **RUNNING TIME** 52 min. **COUNTRY** Austria **YEAR** 2021 **AGE GUIDELINES** University and General Public

IN THE HEAD OF CHAMPIONS

Synopsis/ "Faster, higher, stronger" - The motto of the Olympic games seems to be more and more obsolete with the Tokyo Olympics in 2021. It lacks now: "smarter". For several years, the performances of the athletes stagnate and studies show that we would be at the end of the physiological capacities of the human species. In the race for medals, the contribution of neuroscience on the mental state of champions appears to be the last frontier to explore, the last weapon of performance. This scientific, historical and sports film proposes to discover how great athletes find new resources in the company of neuroscientists who are increasingly involved in the preparation of sports competitions.



DIRECTOR Jean-Yves Cauchard **PRODUCED BY** Kino Presse **RUNNING TIME** 53 min. **COUNTRY** France **YEAR** 2021 **AGE GUIDELINES** University and General Public



CHER AND THE LONELIEST ELEPHANT

Synopsis/ An incredible story in which a superstar flies across the world during a raging pandemic to save a bull elephant from 35 years of suffered incarceration. Marghazar Zoo in Islamabad is where Kaavan, dubbed the world's loneliest elephant, has lived for over three decades. Many of these years have been spent chained and alone since his partner died in 2012. For highly social creatures such as elephant, the death of a partner can induce chronic grief and loneliness. This has left the great, proud creature with permanent scars from his chains, obesity and psychosis brought on by isolation and boredom. It comes to the attention of Rock superstar Cher, who herself has been trying to free an elephant in Los Angeles Zoo. Without hesitation, she pulls celebrity strings and connects people and charities to end Kaavan's plight and set him free. And there is extra pressure - the high courts in Pakistan have dictated the zoo's immediate closure.

DIRECTOR Jonathan Finnigan **PRODUCED BY** A Co-Production of TERRA MATER FACTUAL STUDIOS SMITHSONIAN NETWORKS NUTSHELL TV in association with TWO WISE MONKEYS **RUNNING TIME** 53 min. **COUNTRY** Austria **YEAR** 2021 **AGE GUIDELINES** University and General Public

HEAD, HEART AND HANDS

Synopsis/ With optimism and determination, the voices of Santiago, Alfonso, Loly and other entrepreneurs show us practical and realistic solutions to combat the devastating desertification and loss of life that affects so many rural areas around the world. Soil restoration, water harvesting and crop diversification merge with inspiring initiatives to motivate positive change in a landscape spanning more than one million hectares.



DIRECTOR Astrid Vargas **PRODUCED BY** Intermedia Producciones **RUNNING TIME** 55 min. **COUNTRY** Spain **YEAR** 2020 **AGE GUIDELINES** University and General Public



GREAT APES - A STORY OF THE FEELING MORAL MIND

Synopsis / What do animal emotions tell us about ourselves? Where did the human begin and the animal end? This science documentary takes you on a moving journey through the history of feelings and the intellect, featuring first-rate interviewees Jane Goodall, Frans de Waal and Volker Sommer. It is not just humans, but chimpanzee societies, too, that have customs and traditions that vary from place to place. Is the emergence of morality and culture not a purely human achievement after all? The film takes us into one of the last great wildernesses in West Africa, the mountain jungle of Nigeria, and shows footage from hidden camera traps. What is the significance of the mysterious piles of stones left by chimpanzees near trees or in tree openings? How intelligent really are our closest relatives? Where does the phenomenon of xenophobia originate? Viewers are drawn into an exciting scientific thought-scape. The film takes us on a cinematic journey into the history of feelings and intellect. Along the way, we gradually come to see our complex inner world a little more clearly.

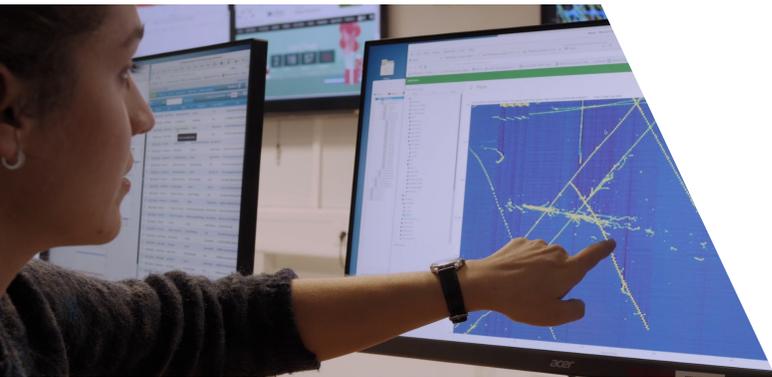
DIRECTOR Anja Krug-Metzinger **PRODUCED BY** Anja Krug-Metzinger Film/RB/ARTE **RUNNING TIME** 58 min. **COUNTRY** Germany **YEAR** 2021
AGE GUIDELINES University and General Public

WIND! TAIWAN

Synopsis / In 2020, Taiwan's energy self-sufficiency rate (including green energy) was merely 6 percent, and 94 percent still relied on foreign imports. The government intends to produce 18-20 percent of the electricity consumed using green power generation by 2025, which is less than 5 years. Is it even possible? This film records the government's resolve to offer the market for technology. Through the dialogue between elder and youngster, we can smell the ardent aspirations and reminders of the previous generation for the next generation. Each wind turbine successfully erected on the Taiwan Strait is a testament to how the government has faced oppositions from political parties and the people; the wrestling between the environmental groups, the fishermen's association, and the developers; the mediations between foreign and local business operators; and the integration of local schools with the international community. Each dispute about the sky, the sea, the people, and the land has turned into a battle of wits and strength. Before the energy issue can be truly resolved, we must guide the focus back to the core values.



DIRECTOR Chun-Liang Shie, Yuan Yuan (Producer) **PRODUCED BY** Dong Tai Communication Co., Ltd./Industrial Technology Research Institute
RUNNING TIME 60 min. **COUNTRY** Taiwan **YEAR** 2021
AGE GUIDELINES University and General Public



GHOST PARTICLE

Synopsis/ It's one of the biggest unsolved mysteries of the universe and for many scientists, neutrinos may be the storytellers to resolve the matter. What happened immediately after the big bang? How did we and everything we see throughout the cosmos come to be? "Ghost Particle" is a science documentary following international efforts to understand the origin of the universe by studying its smallest parts with some of the world's largest experiments. Neutrinos are invisible, nearly massless particles that pass through matter like ghosts and are impossible to see. They act in peculiar quantum ways and their identity-changing behavior may hold the key to unlock clues to questions like how matter remained after the big bang, which is now us and everything we see in the cosmos. Based at CERN, the film offers an inside view to how some of the world's best minds set out to do the seemingly impossible: design a machine to detect the undetectable.

DIRECTOR Geneva Guerin **PRODUCED BY** Cinécoop Productions
RUNNING TIME 63 min. **COUNTRY** Canada **YEAR** 2021
AGE GUIDELINES University and General Public

THE ANTS & THE GRASSHOPPER

Synopsis/ How do you change someone's mind about the most important thing in the world? Anita Chitaya has a gift; she can help bring abundant food from dead soil, she can make men fight for gender equality, and she can end child hunger in her village. Now, to save her home from extreme weather, she faces her greatest challenge: persuading Americans that climate change is real. Traveling from Malawi to California to the White House, she meets climate skeptics and despairing farmers. Her journey takes her across all the divisions shaping the US, from the rural-urban divide, to schisms of race, class and gender, to the thinking that allows Americans to believe they live on a different planet from everyone else. It will take all her skill and experience to help Americans recognize, and free themselves from, a logic that is already destroying the Earth.



DIRECTOR Raj Patel & Zak Piper **PRODUCED BY** Peter Mazunda, Raj Patel, Zak Piper, Rachel Wexler **RUNNING TIME** 74 min. **COUNTRY** Malawi, USA
YEAR 2021 **AGE GUIDELINES** University and General Public



SHEPHERDS OF THE EARTH

Synopsis / This is a story about us - Homo Sapiens. Where do we come from and where are we heading to? The story of the film takes place in Turkana, Kenya. This unique place is also known as the Cradle of Humankind where the discoveries of prehistorical human origins are made. The area is nowadays inhabited by the indigenous pastoral tribe called Daasanach. Our main character Alvaro Fernández-Llamazares, Spanish ethnoecologist arrive to Turkana to study the relationship between humans and nature. He becomes friends with a tribe member Job Nasak, who guides him into the daily life of the village. Alvaro gets impressed by traditional fables and animal stories of the tribe and he is asked to collect them for the first ever Daasanach language story book. The stories paint a picture of vivid nature and a rich wildlife. But while exploring the national park Alvaro discovers dry and bare landscape with hardly any animals left. So starts a fascinating story from the Cradle of Humankind, a story of the nomadic people's struggle to survive, of poaching, nature reserve rangers, tribal wars over scarce resources and prehistoric fossils. The two worlds of biologists and the tribe members collide revealing the values of wildlife and nature for both.

DIRECTOR Iiris Härmä **PRODUCED BY** Guerilla Films Visa Koiso-Kanttila
RUNNING TIME 75 min. **COUNTRY** Finland **YEAR** 2022
AGE GUIDELINES University and General Public

THE RIVER BETWEEN US

Synopsis / Until about ten years ago, the Mashco Piro people were only known from photographs taken during overflights of Peru's Manu National Park, one of the most biodiverse rainforests on earth. Then they began to show themselves. They raided settlements in search of machetes, pots and plantains, while missionaries and indigenous pioneers, who saw the Mashco Piro as a brother people, tried to make contact. After the Mashco Piro murdered two people, the Peruvian Ministry of Culture decided to enter into a dialogue with the Mashco Piro in a project that was unique in the world. A team of anthropologists and indigenous people is to find out whether the Mashco Piro really want contact and at the same time inform them that the world on the other side of the river follows different rules and poses an existential threat to them. The film follows this project over five years, which ultimately confronts the question of what it means to be "civilized" and whether a radically different way of living can remain untouched by the modern world. Sensitive and giving voice to all those involved, Carl Gierstorfer's documentary documents the contradictions that the indigenous peoples of the Amazon face on a daily basis. The question of the future of the last isolated peoples thus becomes the question of how we want to shape our own future.



DIRECTOR Carl Gierstorfer **PRODUCED BY** DOCDAYS Productions GmbH
RUNNING TIME 88 min. **COUNTRY** Germany **YEAR** 2020
AGE GUIDELINES University and General Public



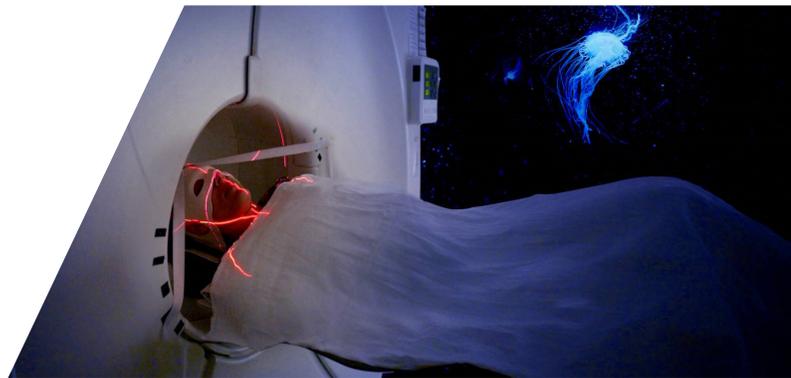
VACCINE - THE INSIDE STORY

Synopsis / With unique access to five vaccine teams around the globe, this is the extraordinary inside story of the unprecedented quest to develop and make vaccines to fight COVID-19.

DIRECTOR Catherine Gale / Caleb Hellerman **PRODUCED BY** Archie Baron, Janet Tobias, Helena Braun, Rogger Lopez - Executive Producers. Commissioned by CNN Films, BBC in association with HHMI Tangled Bank Studios with the support of the Chan Zuckerberg Initiative
RUNNING TIME 91 min. **COUNTRY** UK, USA **YEAR** 2021
AGE GUIDELINES University and General Public

AWARE - GLIMPSES OF CONSCIOUSNESS

Synopsis / What is consciousness? Is it in all living beings? What happens when we die? Why do we seem to be hardwired for mystical experience? In these times of existential crisis, there has been an explosion of research into consciousness. After four centuries of silence, scientists are confronting the "Big Questions", cutting a window into a realm previously held tight by philosophy and religion: AWARE follows six brilliant researchers, approaching the greatest of all mysteries from radically different perspectives, from within and without: through high-tech brain research and Eastern meditation, by scientifically exploring inner space through psychedelic substances and by investigating the consciousness of plants. Scientists are arriving at new insights - some have been integral to indigenous knowledge for millennia.



DIRECTOR Frauke Sandig und Eric Black **PRODUCED BY** Frauke Sandig
Umbrella Films in Koproduktion mit ZDF, Gefördert von BKM, FFA, Medienboard Berlin-Brandenburg, DFFF **RUNNING TIME** 102 min. **COUNTRY** Germany
YEAR 2020 **AGE GUIDELINES** University and General Public

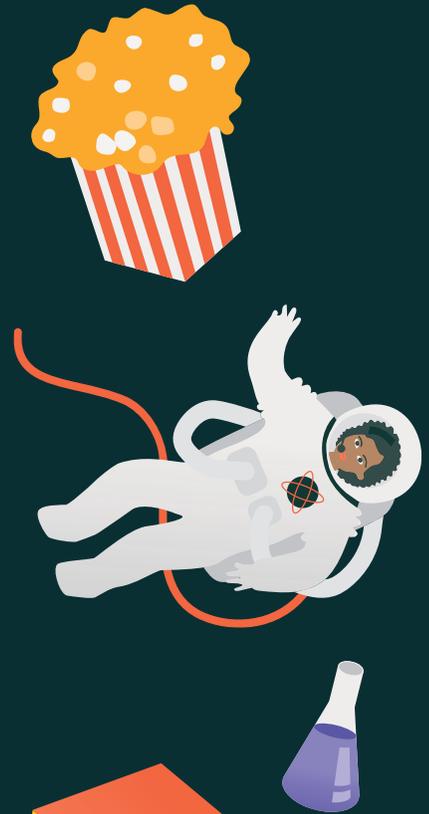


FESTIVAL IMPRESSIONS 2021

In Malaysia, the Science Film Festival 2021 was organized by the Goethe-Institut Malaysia in cooperation with the Ministry of Education, the Malaysian Nature Society, the Association of Science, Technology and Innovation, the German Malaysian Institute, Ecocentric Transitions, Women's Aid Organisation Malaysia, Human Kind and the PASCH initiative.

The festival was officially virtually opened on 1 October. The 11th anniversary of the Science Film Festival was celebrated with a virtual quiz competition for primary and secondary school pupils, three webinars, two online talks and workshops for various age groups based on the films by the SFF partners. The Goethe-Institut Malaysia organized an Instagram reels competition amongst German language learners within the PASCH - partner school network called „Reels for Health“.

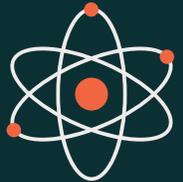
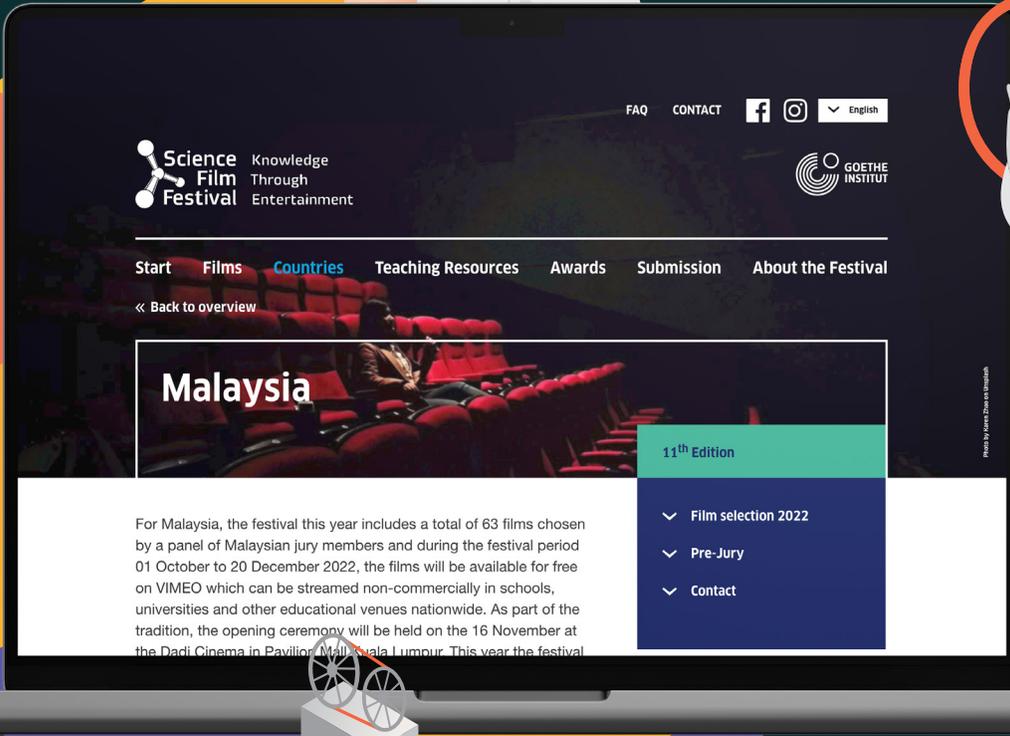
From 1 October until 20 December 2021 the festival films were accessible for streaming on Vimeo, which also offered matching teaching materials and reached more than 3 000 viewers in Malaysia.



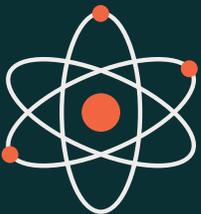
PARTNERS 2022



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@science_film_festival
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The Association of Science Technology and Innovation (ASTI) is an association of educators, scientist, industry representatives and individuals who are committed to advancing the role of the scientific community in inspiring the youth of the nation to join and excel in the world of science. ASTI also plays an active role in the teaching, understanding and creating awareness of science, technology and innovation.

Current Projects include

- Science Fair for Young Children (SFYC)
- Young Inventors Challenge (YIC)
- ASTI Leap Challenge (ALC)
- ASTI STEM Academy (ASA)
- Creative and Critical Thinking Camps/Workshops (CCT)
- ASTI Feynman Challenge (AFC)
- Young Inventors Journal (YIJ)
- A-Plus Programme
- "On the Wings of Fire" Series
- ASTI Recovery Projects (ARP)
- ASTI Collaborative Projects
- Young Scientific Explorer (YSE)



Contact us at:-

ASSOCIATION OF SCIENCE TECHNOLOGY & INNOVATION (ASTI)

PERTUBUHAN SAINS, TEKNOLOGI DAN INOVASI (PPM-012-10-25102012)

No.16A, Jalan 21/2, Sea Park, 46300 Petaling Jaya, Selangor.

Tel: 03-7877 8571/ 03-7865 5557 Fax: 03-7872 9551 Email: asti2510@gmail.com



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Malaysischer Deutschlehrer Verband (MDLV) Persatuan Tenaga Pengajar German Malaysia



MDLV is a society of educators and teachers who are teaching the German Language all around Malaysia.

MDLV also helps to plan activities, projects, courses and workshops based on German Language along with the support from Goethe Institute Malaysia.

Current Projects include:

- German Day in SMK Puteri Titiwangsa*
- Workshop for Teachers in Shah Alam*
- Didik TV KPM - teachers teaching German in NTV7*
- German Hour*
- Storybook Competition*
- Teachers write, students draw*
- Exam Modulpapers*

Contact:

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MFUC acts as a facilitator and assists higher educational institutions from both countries (France and Malaysia) to establish partnerships, joint degrees and/or student exchanges. MFUC also provides assistance to students who wish to pursue their studies in France, and provides assistance towards the mutual recognition of degrees in both countries.

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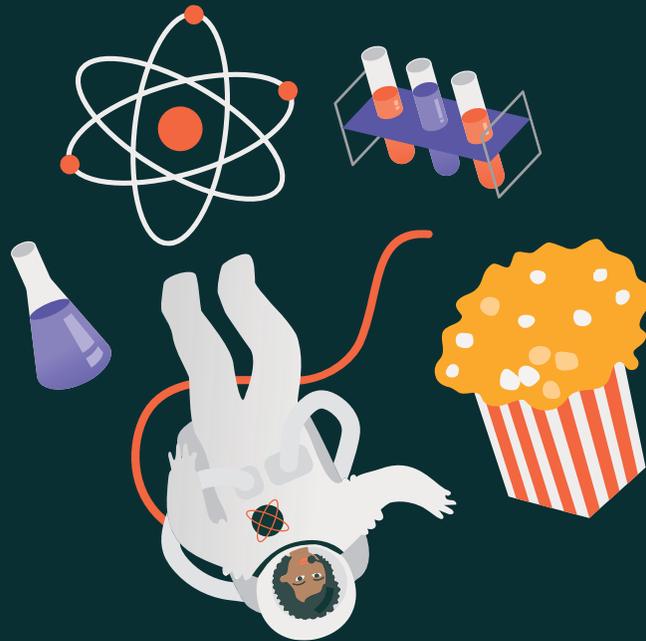
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