Let's Talk **About Water**

FILM AND WATER **FESTIVAL**

DELFT 2019

童 TUE **12 FEB** - THU **28 FEB**







THU 14 FEB - SAT 23 FEB











Materiality

Too much, too little, too dirty

Welcome to the seventh edition of LET'S TALK ABOUT WATER, the water and film festival in Delft. We use the power of cinema to inform and spark debate on a wide variety of topics that are connected through water.

After ten years of producing LET'S TALK ABOUT WATER, I am struck by what the late Stephen Hawking called our "reckless indifference" to the current state of our geophysical planet. It seems that when more severe weather events - seemingly due to climate change and often involving water (too much, too litte, too dirty) - become up-close and personal, suddenly there is a wake-up call. People lose their homes, sacred possessions or even loved ones. Things with a physical presence - a materiality.

But how do we broaden this call-to-action if we are not the direct survivors of this unnecessary loss?

This years film **PROGRAM** attempts to use a variety of types of film (avant-garde, classic, rousing, documentaries) to make you feel - in a sensory, textural and even spiritual way - the physical (material) world around us.

Our data-based map created by Dr. Jay Famiglietti (University of Saskatchewan) and his team over eight years, documents the shifts in our planetary water balance in roughly 34 regions across the globe, looking at ground and surface water, soil moisture, snow and ice, based on the sophisticated NASA GRACE satellite data.

Here technology and science are our friends. But do we trust technology too much? Are we getting the whole picture? Does it distract us from actually doing something about saving the planet?

Let's Talk About Water!

Linda Lilienfeld, founder and director

"Water knits it all together"

Dr. Richard Hooper, Emeritus Executive Director of CUAHSI

All films are in English or subtitled, unless otherwise indicated (with Dutch subtitles).

The language of discussions is English. The entrance fee is €5, students €3, sometimes free.

Let's Talk About Water 2019

This years program is a rich mix of films, speakers, a workshop and informal events, always with the right amount of fun, with the help of our partners IHE Delft and Deltares. New to LET'S TALK ABOUT WATER are two exhibitions and a sustainable fashion show, thanks to the inspiring dedication of the students of the Zadkine College in Rotterdam, the TU Delft Library and IHE's Open Water Diplomacy Lab.

We begin our festival on Thursday 14 February with the opening of a photoexhibition in **OPEN** (city library) called **#EverydayNile** and the launch of an online media campaign with the same name. It's followed with our traditional **Nile Saturday** (16 Feb) addressing the religious aspects of water.

The core of our filmweek starts on Monday 18 February with the Japanese cult classic **WOMAN IN THE DUNES**, which pits a man's ego against the forces of nature and destiny, and too little water. Tuesday starts with a workshop for professional communicators on **The Power of Film**. That evening kicks off our sustainable fashion theme with the film **RIVERBLUE**, a wake-up call-to-action about pollution from an industry that blinds us with glamour and our own vanity. The

next day in the TU Delft Library students show what sustainable clothes look like in a special fashion show. That evening another cult classic, Ridley Scott's BLADERUNNER infuses a water drenched landscape with characters unable to decipher real from unreal. Thursday we combine two films about agriculture in a relaxed evening in the Falie Begijnhof Theater, with cowspiracy and GOOD THINGS AWAIT, a contrapuntal dance between the extremes of big business and corrupt government, and the spiritual side of biodynamic farming. The last evening is reserved for woman and the glacier, which looks at the painstaking and solitary patience of a dedicated scientist. On Saturday afternoon (23 Feb) we wrap-up our festival with the special documentary **DAWSON CITY**: **FROZEN TIME** showing how the perma-frost preserved our disappearing heritage of nitrate and celluloid, the material dream factory of lost film. After our program you can continue your cinematic journey on Tuesday 26 February, with a screening hosted by Students4Sustainability with FROM SOURCE TO SEA, with a look at our consumerism run amok (with the director present).

We wish you lots of fun and inspiration!









#EverydayNile

Launch of a new Online Media Campaign **Debate and Opening of Photo Exhibition**

#EVERYDAYNILE brings together photographers, journalists and researchers from different Nile basin countries to challenge stereotypes like the 'water war' that distort our understanding of the Nile river. By linking photos, storytelling and scientific research we wish to foreground alternative narratives that surprise, delight, inform and facilitate transboundary connections.

Three photographers from Egypt, Sudan and Ethiopia will present their gaze on the river and will discuss with journalists and researchers the role of images in shaping media narratives.

#EverydayNile is an initiative by the project OPEN WATER DIPLOMACY - MEDIA. SCIENCE AND TRANSBOUNDARY COOPERATION IN THE NILE BASIN funded by the Dutch Ministry of Foreign Affairs - Global Partnership for Water and Development, and is implemented by IHE Delft, Africa Water Journalists, Nile Basin Capacity Building Network, SciDev.net and University of Wits (Johannesburg).



l drinks & snacks!

> For update about the project follow the monthly podcast "The sources of the Nile" https://nilewaterlab.org/ podcast-the-sources-of-the-nile/



Photographers Roger Anis (Egypt), Ahmed Saeed (Sudan) and Michael Tsegaye (Ethiopia).



admission free • opening hours: opendelft.info



OPEN Delft (City Library) Vesteplein 100, Delft

'A Saturday on the Nile'

An informal session with film, food, debate and fun

All world religions give water a central place in their texts and rituals. How should we take this into consideration when practising and communicating water science? The Nile offers a unique opportunity to reflect on the confluence between water, society and religion. How do the material - the hydrological cycle, water infrastructure - and the immaterial - culture, religion and spiritual forces - shape and reshape each other? Anthropologist Diego Maria Malara will present his documentary THE DEVIL AND THE HOLY WATER (Ethiopia/Finland 2016, 12 min) on exorcism in contemporary Ethiopia. Archaeologist Terie Østergaard, author of THE RELIGIOUS NILE will share his exploration about holy water, rituals and society along the Nile, from ancient Egypt to contemporary Uganda. Can religion connect the different peoples living along the Nile? We will search for the answer first in **STRONGER TOGETHER** (2018, 16 min) a film by the journalist collective The Niles, celebrating the 20th anniversary of the Nile Basin Initiative, And also in FAITH CON-**NECTIONS**, paying tribute to the ongoing Khumbh Mela (see next page).



Terje Østigård, archaeologist Nordic Africa Institute, Upsala Diego Maria Malara, anthropologist, University of Glasgow





PART OF A SATURDAY ON THE NILE | FILM



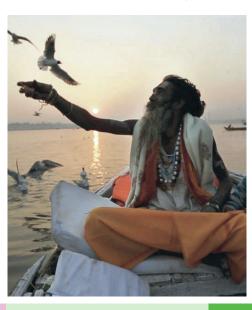
Faith Connections

Pan Nalin France, India 2013 132 min

Widely considered the largest human gathering of any type, the KUMBH MELA is both a Hindu pilgrimage and an extended ritual celebration that takes place every three years in a 12-year cycle at a rotating series of four disparate Ganges riverside sites in India. Since it's believed to be the most sacred of Hinduism's pilgrimages, at the behest of his father, filmmaker Pan Nalin attended the 2013 event at Allahabad - along with approximately 100 million other devotees - near the confluence of the sacred Ganges and Yamuna rivers.

Although Nalin's charge was to collect some holy river water to bring back to his father, his agenda expands significantly upon arrival at the ritual site on the mud flats adjacent to the rivers. Ostensibly the result of his own mission to fill a plastic bottle with sacred river water for his father, Nalin's film wanders about with the feel of a mystical reality show.

Although not the Nile, parallels of water and spirituality abound.



Hiroshi Teshigahara Japan 1964 146 min

Woman in the Dunes

A teacher from Tokyo uses his vacation to expand his collection of sand insects, with the hopes of finding a prize-winning specimen in the vast dunes by the sea. His actual experience turns out to be quite different, in this sublime, black and white, new wave cult classic.

woman in the dunes is a sensual, textural, many layered exploration of man's existential condition - quite the subject in 1964! But in 2019, it's relevance pertains to too much sand, too little water and the interplay between the two - in a literal way. Our coastlines, with our newly severe and repetitive weather patterns, challenge human thought to protect, predict and conserve human life.

The visceral feeling of sand, and the insane lack of water, may spur us to consider the interplay of sand and water through art. And inspire us to strengthen the resilience of those coastal areas for the future.

Can an artistic film inspire creative solutions to planetary problems?

Are we able to transcend our individual egos to consider the 'other'?

What's the role of empathy?





Dr. Fedor Baart, Deltares. Hydrologist and expert on integrated modelling









The Power of Film

How to tell your water story using film

IHE DELFT and DELTARES are proud to present a workshop for scientists who want to tell the story about their research using visual methods. How can they create more impact with their story, and address a wider audience, including the general public and media?

This workshop emphasizes the importance of communication and specifically the power of video to **COMMUNICATE WATER ISSUES, to water** professionals, students and managers of water institutions

PROGRAM

14h00 - 14h15 **WELCOME** and opening remarks

14h15 - 15h00 PANEL DISCUSSION "Why water scientists and professionals should go visual?" with, Catherine Cotton (IHE Delft), Inge Snijder (VP Delta) and Fedor Baart (Deltares), moderated by Ruth Webber (IHE Delft)

15h00 – 15h30 **PRESENTATION** on video storytelling: "How to make the perfect water video", film and TV director Roland Postma

---- break ----

15h45 - 16h15 PRESENTATION on video dissemination: "How to reach an audience with your video", Abraham Abishek (The Water Channel)

16h15 - 17h00 WRAP-UP "towards a recipe for success" hosted by Emanuele Fantini (IHE Delft)

Drinks and snacks 17h00

This event will give you an impression of the extended course on visual methods for water professionals in the summer of 2019 at IHE Delft.



To attend this event, please register by email to e.fantini@unesco-ihe.org





RiverBlue

David McIlvride. Roger Williams USA 2017 95 min

This is the **FIRST FASHION** show at Let's Talk About Water - inspired by student Kyra Sloff. It makes us think of Madonna's song 'cause we are living in a material world, and led to the ideas on 'materiality' that tie the program together.

RIVERBLUE chronicles an around-the-world river adventure, led by renowned paddler and conservationist, Mark Angelo, who ends up uncovering and documenting the dark side of the global fashion industry. He examines the destruction of our rivers, its effect on humanity, and the solutions that inspire hope for a sustainable future.

RIVERBLUE brings awareness to the destruction of some of the world's most vital rivers through the use in manufacturing and disposal of toxic chemicals for our favorite iconic products. But it will also act as a demand for significant change in the textile industry from the top fashion brands that can make a difference.



Can the creativity and energy of youth provide inspiration for the rest of us? Can fashion save the planet?

Will this documentary change your clothes' shopping behavior in the long term?



Dr. Ir. Natascha van der Velden, Finished her Phd at the TU Delft (Faculty Industrial Design) and is expert in 'Sustainable Textiles



Filmhuis Lumen Doelenplein 5 Delft



admission €5 students/staff €3



Programmanager

TUE 12 FEB - THU 28 FEB EXHIBITION

#DETOX your **#FASHION**

Let's Talk About WasteWater

polluting industry in the world after the oil Another example of a firm sustainable needed - time for a change!

wasting less water and working on less pol- gowns for TU Delft and Erasmus University. luting production-methods, Examples will be During the Dutch Design Week 2018 Wille presented in the exhibition.

ensemble worn by Prof. Louise Fresco (Pres-function for discarded garments, not re-using ident of the Executive Board of Wageningen the textile itself but the imprint, like a fossil. University & Research) on the occasion of the TU Delft researchers have an impact on a Opening of the Academic Year in September more sustainable textile-treatment as well: 2018. This ensemble highlights several circu- the KAUMERA from Wastewater-project with lar innovations in the fashion industry. De- a contribution of artist Nienke Hoogyliet that signers Elsien Gringhuis, Aliki van der Kruijs, also was on display during the Dutch Design Ilfa Siebenaar, Luuc Aarts en Iris Houthoff Week 2018.

The textile industry is the second biggest designed components of the ensemble.

industry. On average 100-150 litres of water approach is to repair your timeless textiles per kilogram are required in the process of repeatedly. Also shown is a three generation colouring textiles alone. Also for the produc- lawyers gown made of grein - a textile origtion of cotton a lot of water and pesticides are inally woven from goat or camel hair. The gown - independent of fashion, trends and Several designers try to work towards seasons - is repaired and made available by solving the issue of how making the fashion Toga Atelier Debby Schout, an atelier that industry fairer, cleaner and more sustainable, also designs the (sustainable) professor's

Meike Brand (Graduate Willem de Kooning TU DELFT LIBRARY is proud to present the Academy) showed work that provides a new

A selection of alternative "textile-films" will be shown on the TV-screens in the Library-hall.

Discover more on: www.toga-atelierschout.nl • http://willemeikebrand.com www.wur.eu/circularfashion • Kaumera: https://bit.ly/2AWM7vJ + https://bit.ly/2U2dMTh



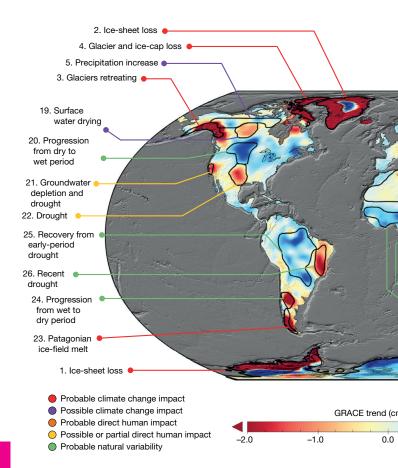


Emerging Trends in Global Freshwater Availability

From NASA GRACE (Gravity Recovery and Climate Experiment) satellite (2002-2016)

Can we decipher patterns in shifts in the world water balance?

Dr. Famiglietti will be on hand to answer our questions.



Annotated map of TWS trends. Trends in TWS (in centimetres per year) obta cause of the trend in each outlined study region is briefly explained and col Gaussian filter for the purpose of visualization; however, all calcula

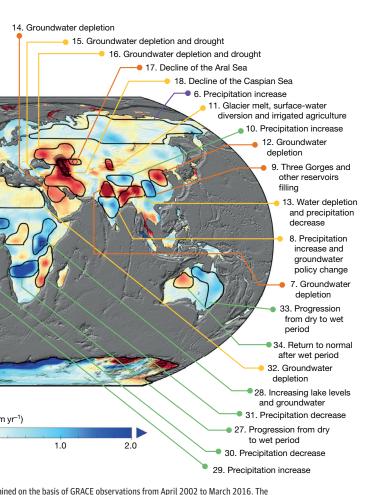
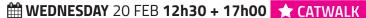


Image credit: from Rodell, Famiglietti, et al., Emerging Trends in Global Freshwater Availability, Nature, 2018

inited on the basis of GRACE observations from April 2002 to what I 2016. The our-coded by Category. The trend map was smoothed with a 150-km-radius ions were performed at the native 3° resolution of the data product.







Franklin

Carter

student

Fashion.

1st vear

Business and

Sustainable Fashion

Fashion Show @ TU Delft Library presenting better and more ecofriendly ways to make clothing.

Nila Meiivoqel and Kyra Sloff students **Business and** Fashion. 2nd year

The focus of Zadkine Business & Fashion students is learning to apply sustainable practices to our everyday lives as much as possible. As a college and in our course, we stand up for the importance of the environment.

Students are the future, so we need to be more aware of these problems. By showing people how wonderful sustainable fashion can be, we are trying to persuade people to be sustainable too.

Our fashion show will mainly focus on the problems the fashion industry causes. You'll see amazing pieces with the intention of putting the spotlight on polluted water and drought, and water being the source of life.

The items shown in the fashion show are made of sustainable materials and reusable products. Think for example of all the plastic bottles we see in rivers and the oceans these days.

Working on this project as a student I have learned a lot. I had little to no clue what fast fashion was doing to our world and people. After reading articles about it, I found out that the fashion industry is now the second largest generator of pollution on Earth after oil, with 300,000 tons of used clothing going to landfill in 2016 in the UK alone.

Rivers are being polluted by dyeing cotton fabric. These chemical pollutants turn waterways into abnormal, anaerobic environments.

Fibres like polyester and nylon are essentially made from plastic and don't biodegrade at all. However both types of clothing will have been bleached, dyed and printed with chemicals during the production process. Once in landfill, these chemicals leach into the soil and groundwater.

I've gained so much perspective and inspiration just by looking at my class and how they are making their ecofriendly clothing.

If we can do it, big corporations most certainly can too!



Mariana Verkerk, model, runway coach, agent, television personality

17h30 FILM ♥ BLUE ROOM: EXTRA SCREENING OF RIVERBLUE



TU Delft Library Prometheusplein 1 Delft



admission free • opening hours: tudelft.nl/library

Ridley Scott USA, 1982 117 min

Blade RunnerThe Final Cut

DUTCH SUBTITLES

It's been 37 years since Harrison Ford portrayed replicant-hunter Rick Deckard in the neo-noir sci-fi film **BLADE RUNNER**. The decor: Los Angeles in 2019, a gloomy dystopia where cars fly over sad neon-lit streets. It is strongly implied that industrial pollution has caused climate change. The androids in the story are so close to humans that it takes an intense psychological questionnaire to determine the difference. Replicant Roy Batty, played by the Dutch actor Rutger Hauer, comes across as more human than the humans when he delivers his famous 'tears in the rain' speech.

Tears, rain - both water - the memory of this film is that it is drenched in water and that the problem of how we differentiate about who and what is real - as they say "IRL" (in real life) - is becoming more ubiquitous. What are we becoming and how do we slow it all down and get back to our real natures?



When did androids appear in literature and art, and how were they portrayed as different from humans? We worried we would be controlled by robots, but are we feeding ourselves to our machines?



Dr. Sascha Hosters, expert in media theory, film studies and visual culture, Rutgers University, New Jersey









Kip Andersen USA. 2014 90 min

Phie Ambo Denmark, 2014 100 min

Cowspiracy + **Good Things Await**

In the film **cowspiracy** a young idealist searches for how animal agriculture affects the planet - and why it is hidden in plain sight, almost entirely unchallenged, while affecting virtually every environmental ill you can think of.

And then in **GOOD THINGS AWAIT** we meet Niels. 79 years old and one of the last idealistic farmers in Denmark, battling for the soil we share. He makes some of the world's finest products, praised by consumers, prized by the world's best restaurants and nursed in harmony with the universe. But Niels' ways of farming in accordance with the planets and the primal instincts of the animals are not too popular with the authorities.

If we are questioning how we live and how we need to change (in our material world) then agriculture is the food-water nexus. The rampant misuse of chemicals and overuse of water and land form a stark contrast with a profound respect for the sanctity of our natural world.

Is there a middle-ground between the two extreme agricultural practices expressed in these films? Will the two heroic characters in these films be able to effect change?

♠ click image to see the infographic in full ANIMAL AGRICULTURE IS THE MOST DESTRUCTIVE INDUSTRY FACING THE PLANET TODAY, HERE'S WHY: CLIMATE CHANGE DEFORESTATION WATER USE SPECIES EXTINCTION WASTE ********* 80.4 METRIC TONS OF FISH LAND USE



Prof. dr. ir. ddv Moors, rector IHE Delft Ken Irvine, Prof. Aquatic Ecosystems **IHE Delft**





FRIDAY 22 FEB 19h30 FILM

Woman and the Glacier

Audrius Stonys Lithuania, Estonia 2016 56 min

The Lithuanian scientist Aušra Revutaite has spent 30 years in the Tian Shan mountain range straddling the borders between Kazakhstan, Kyrgyzstan and China. Some 3,500 meters above sea level she studies climate change on the Tuyuksu Glacier at an old Soviet-era research station. She loves the solitude and silence that her painstaking work brings her. Magnificent shots of her surroundings and everyday work are interspersed with archival footage of the people who preceded her by a century - not much seems to have changed. We see dripping, melting ice in imposing caves, streams flowing through desolate mountain passes, and Revutaite's pets, playing together. The solemn silence of the mountains is punctuated sparingly by the music of a man far, far below, playing a traditional instrument.

The exquisite solitude and solitary existence of Revutaite reflect the painstaking methods of hydrologists in general.

Dr. Jay Famiglietti has spent 8 years collecting and analyzing data about ground water. His famous GRACE satellite map of the world water storage (see centerfold) gives insight into how the world's water balance is changing.



Prof. Jay Famiglietti, hydrologist and Director Global Institute for Water Security, University of Saskatchewan.



Tatiana Acevedo PhD, IHE Delft, water governance



admission €5 students/staff €3



Filmhuis Lumen Doelenplein 5 Delft

∰ SATURDAY 23 FEB **11h30 - 15h30 ∰ FILM ⊕ FUN**

Bill Morrison USA 2016 120 min

Dawson City: Frozen Time

Lightning talks, electrifying shorts, lunch and a movie

Dawson City once was the centre of the Canadian gold rush that attracted 100.000 gold seekers. It was also the last stop for the films and news reports that were shown there. A movie would open in big cities, then circulate to smaller and more distant towns, before ending up, usually after two years, at far flung Dawson City. Because the distributors didn't want the prints back, it was up to people in the town to dispose of them. Some were thrown into the Yukon River, some were burned: a hazardous undertaking, since they were highly combustible. Other films met the unusual fate of being used to fill in a municipal swimming pool that was being paved over to make an ice-skating rink. And it was there, during a construction project in 1978, that hundreds of them were discovered and returned to the world, creating the mother lode of nitrate to celluloid images known as the Dawson City Collection.

We will start our day with a special presentation of .TV, an avant-garde, futuristic film directed by Anthony Svatek, which was screened at festivals around the world. It illustrates how digital domains take precedence over the inexorable disapprearance of the island nation of Tuvalu.



Is decaying film a useful metaphore for the destruction of the earth? How can we electrify our conversations about sustainability?



admiss<mark>ion €5</mark> students/staff €3



Filmhuis Lumen Doelenplein 5 Delft



PART OF **SATURDAY** 23 FEB SESSION PROJECT INFO

Let's Talk About Water Film Prize

Building on the experiences and reputa- PARTNERS nication using film.

to foster collaboration between film artists (CUAHSI). and water scientists. We are looking for participants who would like to join a community of filmmakers, water scientists and others, who will collaborate on the identification of hest achievements.

tion of LET'S TALK ABOUT WATER events held Linda Lilienfeld, Founder and Director around the world since 2009 (including of Let's Talk About Water: Jay Famiglietti, the U.S.A., the Netherlands, France and Director of the Global Institute for Water Latin America) it's time for a new initiative Security and Professor at the University of focussed on the creation and distribution of Saskatchewan, Saskatoon; Roeli Suiker, Comwater communications films: The Interna- munications Advisor at Deltares; Eddy Moors, tional Let's Talk About Water FILM PRIZE, for Rector at IHE Delft UNESCO Institute for achievement in fresh water science commu- Water Education; and Jerad Bales, Executive Director of the Consortium of Universities This community-driven project is designed for the Advancement of Hydrologic Science

See filmsaboutwater.org or letstalkaboutwater.com to subscribe to our information updates on future guidelines and call-for-entry.

changed

From Source To Sea

Eelke Dekker The Netherlands 2018 52 min

A gripping movie about one man's 1200 km journey on a SUP board made from plastic litter

Studentenfilmavond Lumen and Students4Sustainability organize a special student screening of the long distance expedition of the 'Plastic Soup Surfer' Merijn Tinga. Movie director Eelke Dekker, who will give a personal introduction before the screening, followed his voyage from the high mountains of Switzerland all the way down to the North Sea.

By paddling down the iconic river Rhine, the Plastic Soup Surfer wanted to focus on rivers as one of the major sources of plastic pollution. It is your own back yard where the 'Plastic Soup' originates. Rivers transport mismanaged waste, litter and many tons of micro-plastics to our seas and oceans. The Plastic Waste Board was made by the Science Centre of Delft University of Technology.

This screening is part of the **S4S ACTIVITIES WEEK**, which will take place from the 20th of February until the 26th of February.



Foundation **Students4Sustainability** (S4S) is a student organization that aims to motivate TU Delft students to apply innovative technologies in real life. Funded by donors only, we support sustainable projects by students in developing countries. Moreover, **S4S** organizes various activities in Delft to create awareness about sustainability.



Director Eelke Dekker - creative filmmaker and TU Delft alumna Industrial Product Design

www.Students4Sustainability.nl



admission: €9,50 students €5,00



A film and picture researcher for 40 years, specializing in science and history, Linda Lilienfeld (founder and director of Let's Talk About Water) believes in the power of an image to tell a story and move people. It can electrify our conversation and help us understand our world in new ways. Because with climate change and human activity affecting the world, the lives of many people are at risk. Water knits it all together. More at www.letstalkaboutwater.com

The films and guest speakers will give you information and tools that we hope will empower you to contribute, in your own way, with the important water-related topics that affect so many lives.

Linda Lilienfeld







































www.SustainableDevelopment.un.org

This seventh installment of **Let's Talk About Water** is organized by Linda Lilienfeld and Jérôme van Dam in cooperation with **IHE Delft, TU Delft Library** and **Deltares**.

For their help, patience and great commitment we thank Ewoud Kok and Ruth Webber (IHE Delft), Roeli Suiker and Bert Jagers (Deltares), Prof. Nick van de Giesen (TU Delft).

For their kind support: Rick Hooper, former Executive Director of **CUAHSI**, Rob van Nieuwkerk, Ezra Vazquez d'Amico, Mirjam Jacobs and Stichting **Cinema Loves Science**: Anneke van den Berg, Frank Bazelmans and

Margaret Parsons of the National Gallery of Art/Film program, Washington DC.

Student **Kyra Sloff** and teacher **José Makor** (Zadkine College) and **Marion Vredeling** (TU Delft Library) for their inspiration, dedication and time in organising the sustainable fashion show and exhibition.

And the students at **IHE Delft**, volunteers and the student group of **Filmhuis Lumen** and Felix of the **Falie Begijnhof Theater** and the supporting staff at TU-Delft, IHE Delft and **OPEN**, for their assistance and hospitality.

Thanks

