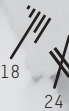


FESTIVAL

PROGRAMME

FESTIVAL
FOR EXPLORATIONS
IN ART,
MUSIC &
SCIENCE

21
—24
FEB
2013



SONIC
ACTS
XV

THE
DARK

UNIVERSE



<u>Constellation</u>	<u>Distance</u>	<u>HD</u>	<u>Notes</u>
Eridanus	10 ly	22049	has one unconfirmed planet



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Sonic Acts XV

**THE DARK
UNIVERSE**

The starting point for the theme *The Dark Universe* are recent developments in science which suggest that the world in which we live is more unfamiliar and even weirder than we have imagined. Because our senses only enable us to perceive a fraction of the electromagnetic spectrum, we have developed an array of instruments to extend our capabilities and detect radiation across the entire spectrum, from gamma to radio waves. Using the Planck Space Observatory we are now able to study cosmic background radiation at a very high resolution, looking back to the birth of the universe. And on 4 July 2012 the Large Hadron Collider detected the 'missing' Higgs boson, a fundamental part of the Standard Model of particle physics.

Still, what these immensely advanced instruments record is probably only a tiny part of reality. Astronomical observations from previous decades can only be explained by postulating the existence of large quantities of matter and energy that we are unable to see, hear or measure. Only 4 per cent of the universe is made of ordinary matter, the other 96 per cent is completely dark to us.

With *The Dark Universe*, Sonic Acts celebrates the deeply rooted human desire to occupy ourselves with things we don't know. The arts and sciences have always been at the core of our exploration of the unknown, the strange, and the unfamiliar. For *The Dark Universe*, Sonic Acts brings together scientists, artists, theorists, musicians and composers to explore the boundaries of our knowledge, investigate how to make the invisible imaginable, learn how to embrace the unknown, and to guide us through the dark universe.

A-K

SONIC ACTS XV

name	category	day	page
Alastair Reynolds	le	sun	46
Aldo Tambellini	fi	sat	26
Andrew Blackwell	le	sat	38
Andrew Pickering	le	sun	43
Anil Ananthaswamy	le	thu	07
Bas van Koolwijk	li	fri	19
Bettina Timm	fi	06-02	51
Billy Roisz	li	fri	19
Biosphere	li	sat	23
BJ Nilsen	in	thu	11
Bruce Conner	fi	sat	21
Christine Ödlund	in	thu	11
Clausthorne	li	sat	23
CM von Hausswolff	ma/in	mon-thu	12/55
Coki	li	sat	27
Cut Hands	li	12-01	49
Dariyan	li	sat	27
David P. D. Munns	le	fri	31
Dead Fader	li	sat	27
Dean Blunt	li	sat	27
Edwin van der Heide	li	sun	28
Ewald Engelen	le	sat	42
Félicie d'Estienne d'Orves	ex	all	49
Finnbogi Petursson	in	thu	11
Flowdan	li	sat	27
Frank Swain	le	sun	46
Franz Pomassl	in	thu	11
Geoff Manaugh	le	sat	38
Gerard 't Hooft	le	fri	30
Gert-Jan Prins	li	fri	19
Goodiepal	ma/le	mon-tue/sun	47/53
H-SIK	li/li	12-01/sat	27/49
HC Gilje	ex/li	all	24/49
Honor Harger	le	fri	34
Ivana Franke	ex	all	49
Jacob Kirkegaard	in	thu	11
Jan-Peter E.R. Sonntag	li	sun	28
Jana Winderen	in	thu	12
Jérôme Noetinger	li	fri	19
JG Thirlwell	in	thu	12
Joost Rekvelde	fi	fri	15
Joris Luyendijk	le	sat	42
Joris Strijbos	li	fri	18
Juha	li/li	12-01/sa	27/49
Jürgen Reble	ex	all	49
Justin Bennett	ex/li	all	19/49
Kahn	li	sat	27
Keller Easterling	le	sat	41

K-Z

Kent Tankred	in	thu	12
Klara Ravat	in	fri	20
Lars Lundehave Hansen	li	17-02	52
Lee Gamble	li	12-01	49
Loops Haunt	li	sat	27
Lustmord	li	sat	23
Maia Urstad	in	thu	12
Maja Solveig Kjelstrup Ratkje	li	sat	24
Makino Takashi	li	fri	18
Matthew Biederman	ex	all	49
Matthijs Munnik	ex/in	all	08/49
MF0	li	sat	23
Michael Doser	le	fri	35
Mika Vainio	li	sat	27
Mike Harding	ma/in	mon-thu	10/55
Miss Red	li	sat	27
Nenad Popov	in	fri	20
Pascale Ehrenfreund	le	fri	31
Patricio Guzmán	fi	23-01	51
patten	li	fri	27
PerMagnus Lindborg	in	thu	11
Peter Mettler	fi	30-01	51
Peter Swanson	li	12-01	49
Peter Tscherkassky	fi	sat	24
Peter Votava	li	17-02	52
Petteri Nisunen	in	thu	11
Raime	li	12-01	49
Raphael Bousso	le	fri	35
Raviv Ganchrow	le	fri	32
Rose Kallal	li	fri	16
Saskia Sassen	le	sat	40
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Simon Ings	le	sun	46
Steina & Woody Vasulka	ma	tue-wed	55
Sully	li	sat	27
The Bug	li	sat	27
Theo Burt	li	fri	16
Tim Maughan	le	sun	16
Tim Wright	li	fri	15
Tina Frank	li	fri	19
Tommi Grönlund	in	thu	11
Tony Conrad	ma	teu	53
Trevor Paglen	ma/le	thu/sat	37/55
William Raban	li	fri	15
Yamila Rios	li	fri	18
Yolanda Uriz Elizalde	ex	all	49
Yosuke Fuyama	li	sat	24

lecture, live performances, exhibition, film,
installation, masterclass

THE DARK UNIVERSE

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INDEX



© Anil Ananthaswamy

NASA's long duration balloon being filled with helium on the Ross Ice Shelf near McMurdo, Antarctica. The balloon flights carry telescopes and detectors to the edge of Earth's atmosphere.



© Anil Ananthaswamy

The Ross Ice Shelf near McMurdo, Antarctica, the site for NASA's long duration balloon flights.

THU 21 FEB
19:00-22:00
STEDELIJK MUSEUM

THE DARK UNIVERSE

OPENING 7

FESTIVAL OPENING

The Dark Universe festival takes off with a very special evening as part of Stedelijk | special events, during which unknown properties of seeing and hearing are revealed. The evening features a sound installation composed for a specific space in the Stedelijk Museum: *freq_out 9*. This work consists of twelve separate sound pieces composed by twelve artists. Made on site, the pieces are amplified to act as a single, generative sound-space. Matthijs Munnik will premiere a new monumental instalment of his flickering light work *Lightscape: Common Structures*. Anil Ananthaswamy will begin the evening with a lecture about the edge of physics and how the most remote places on the planet might help us solve the mystery of the dark universe.

Anil Ananthaswamy
The Edge of Physics

We don't understand 96 per cent of the universe. This 'dark universe' is made up of dark matter and dark energy. How do we know this? How do we go about deciphering the nature of dark matter and dark energy? Over the course of three years, Anil Ananthaswamy travelled to some of Earth's remotest regions to look at experiments that are trying to solve the mystery of the dark universe. In this talk, he shares his experiences of how the experiments being conducted in places like Lake Baikal in Siberia, a deep underground mine in Minnesota, the Atacama Desert in Chile, the Karoo in South Africa, and even the Antarctica are making use of the natural quiet of these regions to listen to the faint signals that tell us more about the dark universe.

Anil Ananthaswamy (IN) is a science journalist and author. A consultant for *New Scientist*, he has also written for *Discover* and is a columnist for PBS Nova's *The Nature of Reality* blog. He is the author of *The Edge of Physics*, a book that explains how some of Earth's remotest locations are crucial to our studies of the universe.

Matthijs Munnik
Citadels: Common Structures

As a window to a virtual world, *Citadels: Common Structures* visualises an abstract universe composed only of light and sound, exploring the borders of our sensory hardware. While the eye tries to make sense of the sensory overload, a dazzling display of highly detailed patterns and colour combinations is formed in the retina and fed to the brain: the curious phenomena you see are created by the eye itself, induced by the flickering lights. The effect is impossible to capture on video or in text; it can only be experienced in real life.

Matthijs Munnik's (NL) performances and installations play with visitors' perceptions. He researches all kinds of colour combinations, patterns, and rhythms to create spectacular visual effects.

Citadels: Common Structures is commissioned by Sonic Acts.

© Ed Jansen



© Konstantin Guz



Matthijs Munnik, *Citadels: Lightscape V*, 2013.

freq_out 9

freq_out 9 is a sound installation comprising twelve individual sound works, each utilising a specific frequency range, made on site, and amplified to act as a single, generative sound-space. The concept for *freq_out* is by CM von Hausswolff. For *freq_out*, the participants have been allotted frequency ranges within the audible sound spectrum. Participant number one has been allotted 0-25 Hz, number two 25-65 Hz, and so on.

Over a period of four days, their task is to compose one sound work each. The work cannot contain any sounds beyond the allotted frequency range, but can be of any length and is played back as a loop. The work consists of 12 smaller works joined together into a whole. Thus, when the works are played back they are all played at once, through twelve different sound systems. The sounds have no beginning or end, but exist in a constant flow, acting in a sculptural way. Since the sound frequencies are different, there are no collisions between individual sounds, only interference – audio complements – which arise as sound phenomena in the spaces. This configuration of frequencies has a great deal in common with the instrumental content of a large symphony orchestra, ranging from the double bass to the piccolo flute. The final mix not only reveals the innate properties of the frequencies, but also the possibilities when they are combined. Each participant works individually, without anyone else's involvement, but all those involved must be able to accept what the others produce.

Featuring:

Mike Harding (UK) is a curator, producer, lecturer and music publisher. He runs the Touch label together with Jon Wozencroft.

Jacob Kirkegaard's (DK) installations, compositions and performances deal with acoustic spaces and phenomena that usually remain imperceptible. Kirkegaard uses unorthodox recording devices to capture and contextualise hitherto unheard sounds from within a variety of environments.

PerMagnus Lindborg (SE) is a composer, performer and researcher. He has degrees in composition and music computing from Oslo (Music Academy) and Paris (Ircam).

BJ Nilsen (SE) is a sound and recording artist. Nilsen primarily focuses on natural sounds and their effect on humans, field recordings and the perception of time and space as experienced through sound, often electronically treated.

Petteri Nisunen (FI) and Tommi Grönlund (FI) have been working together since 1994. Grönlund and Nisunen, both of whom studied architecture, produce records and create mixed-media installations that explore sound and space in a relatively low-tech, simple manner.

Finnbogi Petursson (IS) is one of Iceland's most prominent artists. He is known for works that fuse sound, light, sculpture, architecture and drawings. Sound, a crucial element in his works, is typically incorporated into spare sculptural installations.

Franz Pomassl (AT) is an electronic sound and recording artist and DJ residing in Vienna, Austria. He is co-founder of the experimental techno label Laton. In his performances Pomassl uses a broad range of homebuilt analogue electronic equipment.

Christine Ödlund (SE) studied photography at university, and then graduated from the art academy in Stockholm as a video artist. She also studied at the Institute for Electro-Acoustic Music in Stockholm. She creates hybrid forms of animation, photography and electronic music.

Kent Tankred (SE) studied painting in the early 1970s before attending the Institute for Electro-Acoustic Music in Stockholm. Tankred is interested in musical encounters with other art forms, which has resulted in fusions where his music has also been presented as installations at exhibitions.

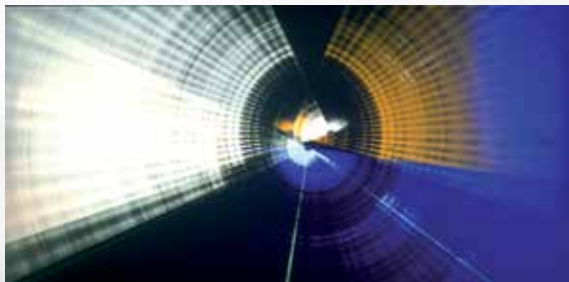
JG Thirlwell (AU) is a composer, producer, and performer. After working with Nurse With Wound, Thirlwell started making his own records in 1980. He was inspired by the UK post-punk explosion of creativity in as well as by the writings of John Cage and systems music.

Maia Urstad (NO) works at the intersection of audio and visual art. Her work involves integrating sound into specific locations. Recent practice includes indoor and outdoor sound installations and performances, using CD players and cassette-radios to transmit the sound and as sculptural objects, commenting on the temporary nature of technology.

Jana Winderen (NO) is a sound artist with a background in mathematics and chemistry, who has also worked as a curator and producer since 1993.

CM von Hausswolff (SE) is a composer and a conceptual artist. As a composer he uses recording devices as his main instrument. As a conceptual artist he works with performance art, light- and sound installations and photography. He is the curator of *freq_out*.





© Joost Rekvelde

Joost Rekvelde, #11, Marey <-> Moiré, 1999.



© Tate Media

William Raban, Wave Formations, 1977.

FRI 22 FEB
20:00-00:00 / DOORS 19:30
PARADISO

SPECTRAL BLISS

LIVE PERFORMANCES 15

~~SPECTRAL BLISS~~

An exciting programme mixing expanded cinema and performances, all in full colour, that exposes the intricacies and complexities of our perception. The senses are triggered, explored and manipulated with coloured light, precise sounds and vibrations.

Joost Rekvelde
#11, Marey <-> Moiré

In the award-winning *#11, Marey <-> Moiré* (1999, NL, 21', 35mm), Joost Rekvelde creates moving patterns from filaments of intersecting lights. The visual effects are inspired by the theories of Etienne-Jules Marey, a scientist who researched how natural movements could be documented through the medium of film.

Joost Rekvelde (NL) has been making abstract films and light installations since 1991 with the idea of creating visual music for the eye.

William Raban
Wave Formations

Wave Formations (1977) is an expanded cinema performance, performed live by William Raban, using three screens and sound. It articulates a seascape by using primarily colour fields and a soundtrack. Three colour fields pulse in and out – blue, red and green. The hiss of waves is heard as the colours rise and subside.

William Raban (UK) is one of the foremost British experimental filmmakers of the last 40 years. He is known primarily for his landscape, performance and multi-screen based films.

Tim Wright & Theo Burt Bastard Structures II

In their new collaboration *Bastard Structures II* (2012) Tim Wright and Theo Burt link digital sound to geometry. Intense strobe effects are projected on two walls in a corner of a room to create an intense and perception-distorting show. These digitally projected sonic and visual structures seemingly rearrange the geometry of the room – a confusing exploration of the materiality of sound and light.

Tim Wright (UK) is a musician and composer who also works with video. He is perhaps best known as a producer of idiosyncratic electronic dance music released under his own name and the pseudonym *Tube Jerk*.

Theo Burt (UK) works with sound, video and light, drawing on the perceptual relationships between sound and image and the aesthetic application of technology. His output includes installations, live performances and fixed-media pieces.

Rose Kallal Apeiron

A unique magical expanded cinema performance. Using 16mm film projectors Rose Kallal creates a constantly changing collage of overlapping abstract images, linear geometric patterns, glowing lines, and suggestive shapes.

Rose Kallal (CA) is a New York-based artist and musician who creates immersive 16mm film installations using multiple projectors. She is heavily influenced by mid-20th-century experimental filmmakers such as Bruce Conner.

© Rose Kallal.



Rose Kallal, *Apeiron*, 2012.

© Florian Schulte



Synchronator Orchestra, *Kontraste*, 2012.

Yamila Ríos & Joris Strijbos
COVEX

In the audiovisual performance *COVEX* (2012-ongoing), Yamila Ríos and Joris Strijbos explore the relations between electroacoustic sound and diffracted light patterns. An extended cello creates a mass of sound, which morphs from a complex noisy environment of fast, fragmented textures to a serene, harmonic drone. Shooting laser beams through transparent objects results in an effect known as a 'speckle pattern' and produces intricate visual constellations and abstract landscapes of detailed colour patterns and dynamically evolving shapes.

Yamila Ríos (ES/NL) is a composer and performer whose work combines live electronics with sonic explorations on traditional instruments. In one of her main projects, *Marcelino*, she extends her cello by attaching different sensors to the body of the instrument that send data to a computer, allowing her to manipulate sound in real time.

Joris Strijbos (NL) works in the fields of expanded (live) cinema, audio performances and kinetic-light installations. He is a member of *Macular*, a collective that focuses on the synaesthetic relations and interactions between moving images and sound.

Co-produced by Kontraste and Sonic Acts.

Makino Takashi
[2012]3D

Makino Takashi created a new 3D version of his audio-visual cosmic-noise performance *2012*, which consists of images he generated and edited during the year 2012.

Makino Takashi (JP) creates films and performances in which he uses a wide range of film and video techniques, treating the image and the music as elements of equal importance.

Synchronator
Orchestra

The *Synchronator Orchestra* is a live performance project in which several artists produce sound as well as visuals using a Synchronator. This device translates three channels of audio input into the primary colour channels of an analogue video signal. The *Synchronator Orchestra* creates a spectacle of synchronised audio and video noise.

Gert-Jan Prins (NL) focuses on the sonic and musical qualities of electronic noise and investigates its relationship with the visual. He developed the Synchronator device with Bas van Koolwijk. Bas van Koolwijk (NL) works with video errors and digital code to create sound and image interactions. He uses self-made software and hardware applications in live performances, installations and video compositions. Justin Bennett (UK/NL) works with sound and visual media. His work painstakingly examines the sounds of our everyday urban environments in the minutest detail. Tina Frank (AT) is a graphic designer and media artist as well as professor of visual communication at the University of Art and Design in Linz, Austria. Her roots are in web design. Jérôme Noetinger (FR) is a musician and sound artist who works with electroacoustic devices. He is also director of record label Metamkine. Billy Roisz (AT) specialises in feedback video and video-sound interactions, using various devices and instruments, such as video mixing desks and a self-built videosynth.

Co-produced by Kontraste and Sonic Acts.

Nenad Popov & Klara Ravat
Eucariotic Punk

Nenad Popov and Klara Ravat took the idea of live cinema literally and developed methods to grow specific kinds of organisms directly on 16mm film loops, mostly friendly species of fungi like moulds or yeast. The biological processes transform the film while it runs through the projector. This results in a variety of evolving landscapes of unexpected textures, patterns and colours. An environment is created where the audience is not only seduced by the moving image but also by the mechanical sound and movement of the projectors.

Klara Ravat (ES/NL) works with video, film, photography and performance. She uses analogue and digital film, not wanting to choose for one or the other.

Nenad Popov (SRB) creates live cinema pieces, sound installations, film installations, weird sound-making contraptions and impossible collaborations.

Indigo Aera meets Tape
The Bright Universe

Indigo Aera and Tape join forces for a full night's party at Sonic Acts. In the main hall Indigo Aera presents James Ruskin, Ø [Phase] (for the first time in the Netherlands), Maarten Mittendorf & Jasper Wolff, and Makam. And at the same time Tape launches its new concept 'live series' – a series of live sets by artist who bring their own hardware and gear, with Juju & Jordash (IL), John Heckle (UK), Gifted & Blessed (US), and Tape residents Berend, Jeroen & Olff.

Indigo Aera is the Detroit-techno label of Maarten Mittendorf & Jasper Wolff. Tape organises techno events and has just started a record label.

THE NUCLEAR SUBLIME

An evening with audiovisual performances and films that approach the sublime in very different ways. Some of the featured works reflect on the history of nuclear testing and the almost incomprehensible power of nuclear explosions. Definitely something not to forget. And there are explorations of electromagnetic waves, noise and geometric patterns, and Maja S.K. Ratkje's stunning voice with visuals by HC Gilje.

Bruce Conner
Crossroads

Conner based *Crossroads* (1976, US, 36', 35 mm) on government footage of the first underwater nuclear bomb test on 25 July 1946, at Bikini Atoll in the Pacific Ocean. The same explosion is seen 27 different times. The film starts with the grandeur of the explosion – the dramatic spectacle and beauty. As the repetition builds the explosion gradually takes on the dimensions of a universal, cosmic force, becoming part of the indifferent ebb and flow of life that one sees in a lingering view of the ocean.

Bruce Conner (US) is renowned for his work in assemblage, film, drawing, sculpture, painting, collage, and photography. Conner's masterful montage films were highly influential and established him as one of the seminal figures in the history of independent, avant-garde film-making.



© RIXC archive

Clausthorne and Martiņš Ratniks, *Unknown Planet*, 2012.

Courtesy The Conner Family Trust
© Conner Family Trust

Bruce Conner, *Crossroads*, 1976.

SAT 23 FEB
20:00-23:30 / DOORS 19:30
PARADISO

THE NUCLEAR SUBLIME

LIVE PERFORMANCES 23

Clausthorne & Mārtiņš Ratniks Unknown Planet

An electromagnetic fantasy journey departing from Earth and entering inner space, with the electromagnetic spectrum, electricity and ranges of radio frequencies as sources of inspiration. A dialogue with the visible and invisible energy inside and surrounding us is established using electronic equipment built especially for this purpose.

Clausthorne (LV) is a group of musicians who mainly work with drum noise, radio noise, and ambient electromagnetic sounds. Clausthorne create sound from data gathered by radio telescopes and from archives of astronomy research data servers.

Mārtiņš Ratniks (LV) is a media, video and sound artist. He is member of E-LAB and of the digital video art group F5, and is a DJ at OZOne Radio.

Biosphere, Lustmord & MFO Trinity

Trinity is a collaboration of Biosphere, Lustmord and MFO. Using sound and image, they explore the first nuclear weapons tests in the New Mexico desert. For this, Lustmord and Biosphere travelled to the White Sands Missile Range and Los Alamos in the US to research and make field recordings.

Biosphere is the main recording name of Geir Jenssen (NO). He is well known for his ambient techno and arctic ambient styles. Brian Williams (UK) is an electronic musician credited for creating the dark ambient genre with albums recorded under the name Lustmord. Lustmord's music combined field recordings made in crypts, caves, and slaughterhouses with occasional ritualistic incantations and Tibetan horns. MFO is a visual media arts collective. They provided visuals for the likes of Oni Ayhun, Shackleton, and Sepalcure, and worked with Kode9.

Peter Tscherkassky
Outer Space

In *Outer Space* (1999, AT, 10', 35mm) a woman terrorised by an invisible and aggressive force is also exposed to the audience's gaze, making her a prisoner in two senses.

Peter Tscherkassky (AT) is an Austrian avant-garde filmmaker who works exclusively with found footage.

Yousuke Fuyama
Experimentation
For DATA-Material

A live audiovisual performance by Yousuke Fuyama. Generated geometric patterns fold in and out of shape to a soundtrack of massed noise that erupts in a climactic electrical storm.

Yousuke Fuyama (JP) is a composer, programmer, visual and graphic designer, and VJ.

Maja Solveig Kjelstrup Ratkje
& HC Gilje
Voice

Vocal magician Maja Solveig Kjelstrup Ratkje and master of light HC Gilje will be among the highlights of the festival with their stunning audiovisual performance for voice, electronics and LED screens. Ratkje and Gilje left a deep and lasting impression with their duet in October 2012 at the Kontraste Festival in Krems.

Maja Solveig Kjelstrup Ratkje (NO) is a Norwegian composer and performer. Ratkje is active as a singer/voice user and electronics performer and engineer, as a soloist and in collaboration with other artists.

HC Gilje (NO) works with real-time environments, installations, live performance, set design and video.



© Light Cone

Aldo Tambellini, *Blackout*, 1965.



© Peter Tscherkassky

Peter Tscherkassky, *Outer Space*, 1999.

Aldo Tambellini Blackout

Blackout (1965, US, 9', 16mm) is a rising crescendo of abstract images. Rapid cuts of white shapes on a black background supplemented by an equally abstract soundtrack create the impression of a bombardment in celestial space, or of being on a battlefield where cannon fire at an unseen enemy in the night.

Aldo Tambellini (US) is a multi-media artist and video pioneer born in Syracuse, New York. Raised in Italy, he is best known for his explorations of the colour and concepts surrounding black, and his performances.



A Sonic Acts festival club night of dark sonic dread and blacked out ecstasy in collaboration with Viral Radio. An international group of zeitgeist riders perform their newest ever now music: from burial rhythms and encrypted frequencies to droning echoes and colliding dub.

The Bug (UK), featuring Flowdan & Miss Red, draws on dancehall, noise, grime, and hip-hop. Dean Blunt (UK) formed the group Hype Williams with Inga Copeland, and recently released *The Narcissist II* under his own name. patten (UK) has been performing his raw and dynamic live show to amazed crowds across Europe in the wake of his debut release *GLAQJO XAACSSO*. Mika Vainio (FI) was one half of the minimal electronic duo Pan Sonic from Finland. His solo works are known for their analogue warmth and electronic harshness. Loops Haunt (UK) creates a dysphoric blend of hip-hop, IDM and drum'n'bass, executed with enormous precision. Sully (UK) is a DJ exploring the rude spirit of jungle. Coki (UK) is Dean Harris, a dubstep producer, DJ and MC. He is also part of Digital Mystikz and runs the DMZ label with Mala and Loefah. Kahn (UK) emerged from the shadows of the Bristol underground and is known for his electrostatic synths and stirring, moody grooves. Dead Fader (UK) makes heavy electronic bass/noise music, specialising in sounds and nasty distortion. Juha (NL/FI) is DJ, curator and Viral Radio founder Juha van 't Zelfde, a carrier of visceral auditory stimuli. H-SIK (CI) uses dub, hip-hop, African music and footwork to create a bass-heavy mix. Dariyan is one of Viral Radio's stealth missiles. His music is a genuine synthesis of highspeed jazz and victory techno.

Edwin van der Heide & Jan-Peter
E.R. Sonntag
Rundfunk Empfangssaal

Rundfunk Empfangssaal (2013) is a new 'environmental radio music for extreme long waves' by Edwin van der Heide & Jan-Peter E.R. Sonntag. They use a large dipole antenna, loop antennas, long wave receivers, laptops, two plasma loudspeakers (sonArcs) and a full range sound system to invert the idea of the radio hall. They take the signals in the electromagnetic space embodied by the concert hall as source material for their performance. Natural radio signals and transmitted long wave signals up to about 150kHz that traverse the performance space are received and translated into a tangible space of acoustically audible signals. They navigate, steer and combine the different signals to shape the unpredictable.

Jan-Peter E.R. Sonntag (DE) has an academic background in instrumental music, fine art, art history (new media), music theory, composition, philosophy and cognitive science. He has mostly focused on site-specific installations based on sound and biomass but also specifically on monochrome gas-discharge lights.

Edwin van der Heide (NL) is an artist and researcher in the field of sound, space and interaction. He extends the terms 'composition' and 'musical language' into spatial, interactive and interdisciplinary directions. His work comprises installations, performances and environments.

CONFERENCE



Constellation
Columba

Distance
1294 ly

HD
38666

Notes
runaway star

~~EXPLORATION OF THE UNIVERSE~~

10:30-12:45

The first conference panel will look into outer space. How do we accumulate knowledge of our universe? Radio telescopes scour the skies, satellites and man-made robots travel the spaceways and transmit data to Earth. How did this exploration evolve? What are we learning at the moment? And what is the future of human exploration of outer space?

Gerard 't Hooft
Human Expansion into Outer
Space?

Human presence in the universe is now a fact, although we can hardly speak of a physical human presence. Man-made robots have sniffed at all the planets in our Solar System, and even moons and dwarf planets have been visited, or our emissaries are under way. What can we expect from these developments in the future? Will there be extended colonies, or will there be robot villages? Will we be able to extend our voyages to nearby stars? Gerard 't Hooft shares his vision on these issues.

Gerard 't Hooft (NL) is a Dutch theoretical physicist and professor at Utrecht University, the Netherlands. He was joint winner of the 1999 Nobel Prize in Physics (with Martinus J. G. Veltman) for elucidating the quantum structure of electroweak interactions.

Pascale Ehrenfreund
Space Exploration and the
Search for Life in the Universe

Several nations are currently engaging in, or planning for, space exploration programmes that target the Moon, Mars and near-Earth asteroids. These journeys can provide answers to some of the most fundamental scientific and philosophical questions. 'How did our solar system and host planet form?' 'Does life exist beyond the Earth?' and 'What are the potential opportunities for humanity to live off the planet?'

Pascale Ehrenfreund (AT) is chief investigator at the NASA Astrobiology Institute (Node Wisconsin) and leads the Astrobiology Laboratory at the Leiden Institute of Chemistry.

David P. D. Munns
A Single Sky

Humanity now sees the universe with far more than merely its eyes. The last half-century has exploded the once comfortable notion of astronomy as a science centred on seeing. Since the invention of radio, we now listen to the universe and rockets transport telescopes and detectors into space itself to receive all the information the heavens throw at us, from gamma to radio waves. Munns' talk takes us through a few of the pivotal moments when people learned to see the stars and galaxies through radio.

David P. D. Munns (US) is a historian of science and technology. MIT Press recently published his first book, *A Single Sky: How an International Community Forged the Science of Radio Astronomy*. He is currently finishing another book on the science of the biological effects of climate change.

DARK SIGNALS

14:00-15:30

In the panel *Dark Signals* the focus shifts towards the arts, and how they explore unknown behaviours of sound and electromagnetic signals. Raviv Ganchrow sheds light on how he researches sound and listening. Honor Harger shows how contemporary arts take inspiration from science, especially physics and astronomy, and how artistic research feeds back into science.

Raviv Ganchrow
Listening Sites

Raviv Ganchrow's talk explores contextual approaches to sites of listening in his recent work. It includes musings on the making of *Fray* (a site-specific installation questioning our sense of situatedness within a relational understanding of place) as well as two works-in-progress concerning critical sites of radio production, namely a Long-Wave transmitter and a Hörspiel studio. Ganchrow elaborates on strategies that explore, tweak and at times intervene in everyday contexts of hearing. Particular attention is placed on habitual practices inducing inadvertent modes of listening with pronounced spatial-material senses of sound.

Raviv Ganchrow's (US/NL) work focuses on interrelations between sound and space, aspects of which are explored through sound installations, writing and the development of acoustic-forming and vibration-sensing technologies. He is currently a faculty member at the Institute of Sonology, The Hague.



cc Annette Wolfsberger

Raviv Ganchrow, *Installing Fray*, Kontraste, 2012.



cc Raviv Ganchrow

Raviv Ganchrow, *Fray*, 2012.

Honor Harger The Dark Arts

Artists and musicians have been active in producing some of the most powerful and persistent ideas about the possibilities of the invisible universe that surrounds us. Much as cartographers of the past worked hand-in-hand with the artists who illustrated and interpreted the new worlds they discovered, the dark universe is being mapped, visualised and sonified by artists. Honor Harger's talk will touch on how sound artists and musicians are working with astero-seismology, plasma physics, very low frequency radio waves and the outer reaches of physics.

New Zealand-born Honor Harger (UK) has a particular interest in science and technology. Besides being a curator, she is the director of Lighthouse, a digital culture agency in Brighton, UK.

~~THE DARK SIDE OF THE UNIVERSE~~

16:00-17:30

These are exciting times for particle physics and cosmology. It appears that the elusive Higgs boson was detected in the Large Hadron Collider at CERN in July 2012. Theoretical physics and cosmology develop mind-boggling models of how our universe functions. And there are many more experiments happening in deep underground laboratories that are seeking evidence that underpins our theories of our universe and the fundamental laws of nature.

Michael Doser Does the Universe Have a Dark Side?

The universe we see with our eyes is only a small fraction of what is out there... and what we think should be there, doesn't appear to be. The past two decades have seen many new observations and experimental results that paint a complex picture. Michael Doser will talk about dark matter, antimatter, dark energy, about what we know and what we don't, about how this knowledge has been obtained, and what might be discovered in the next years.

Michael Doser is a research physicist at CERN, the European Centre for Nuclear Research in Geneva, Switzerland. He has specialised in working with antimatter. For several years, he and other researchers have been investigating if antimatter could be applied to more effectively irradiate and kill tumours.

Raphael Bousso The World as a Hologram: Black Holes, Information, and the Quest for a Unified Theory of Nature

Black holes are among the most enigmatic phenomenon in nature. Forged from the gravitational force itself, they absorb all matter that falls into them, allowing nothing to escape. Yet, black holes do emit a faint glow: as Stephen Hawking first realised, they slowly morph into a vast cloud of radiation and ultimately disappear. After 40 years, this discovery continues to spark controversies that touch on some of the deepest questions in science: How much information does the universe contain? Can information be lost? Do space and time come to an abrupt end at the edge of a black hole? Raphael Bousso will survey some of the surprising insights that black holes have revealed to

physicists. He will also describe profound paradoxes that remain, and which may be key to the unification of quantum mechanics and gravity.

Raphael Bousso (US), Professor of Physics at the University of California, Berkeley, is recognised for discovering the general relation between the curved geometry of space-time and its information content, known as the 'covariant entropy bound'. Bousso is also one of the discoverers of the landscape of string theory, which explains the small but non-vanishing value of the cosmological constant (or 'dark energy').

~~DARK~~ ~~PLANET~~

10:30-12:30

On Saturday the conference shifts focus to take a closer look at the earth. Now 'dark' does not so much signify 'unknown'; instead it is taken to mean 'hidden', and often also 'gloomy', 'ominous', or even 'catastrophic'. We examine the dark sides of man-made structures and systems.

Trevor Paglen
The Last Pictures

Trevor Paglen will discuss his own work, including his project *The Last Pictures*, a collection of 100 images etched onto a gold silicon disc orbiting the Earth and far outlasting anything else humans have created. Expect to hear about cover-ups, redacted documents and secret satellites while Paglen explains how he conducts research.

The work of geographer and author Trevor Paglen (US) deliberately blurs the lines between science, contemporary art, journalism and other disciplines to construct unfamiliar, yet meticulously researched ways to see and interpret the world. Paglen's visual work has been exhibited at several museums such as the Metropolitan Museum of Art in New York and Tate Modern in London. He is the author of five books, including *Blank Spots on the Map: The Dark Geography of the Pentagon's Secret World*, and numerous articles on subjects such as experimental geography, state secrecy, military symbology, photography, and visibility. His most recent book, *The Last Pictures*, is a meditation on the intersections of deep-time, politics, and art.

Andrew Blackwell Visit Sunny Chernobyl

Experts agree: humans are ruining the planet. But that doesn't mean it's not worth visiting. For his book *Visit Sunny Chernobyl*, Andrew Blackwell set out to explore seven of the world's most degraded and contaminated environments. The result is a wry memoir of adventure, heartbreak, and environmental reporting – and a love letter to Earth's least-likely vacation spots. In this pungent lecture, he will share what he learned from his journey to the surprisingly un-dark heart of environmental darkness – and argue that the end of nature is, paradoxically, a cause for hope.

Andrew Blackwell (US) is a journalist and filmmaker living in New York City. His first book, *Visit Sunny Chernobyl (and Other Adventures in the World's Most Polluted Places)*, was published in 2012.

Geoff Manaugh Terrestrial Psychosis and the Rise of a Surrogate Earth

Beginning with a brief survey of noteworthy or provocative discoveries in archaeology – from artificial mounds in Europe and North America to the use of muon detectors in determining the internal structures of ruined buildings – this talk will ask what it means for humans to discover that an apparently natural earth-form is, instead, entirely 'manmade': a kind of spatial prosthesis that is, in the most literal sense, extra-terrestrial, not part of the Earth but a cultural addition to it. Using a number of other examples, from artificial reefs and climate change to genetically modified 'wild' species, Manaugh discusses some of the unanticipated side effects of living on a planet and breathing an atmosphere that humans have, at least partially, produced.

© NASA/Carla Cioffi



Trevor Paglen, *The Last Pictures*, 2012.



Geoff Manaugh, *Terrestrial Psychosis*.



Keller Easterling, Kitambi Klaxi, Luanda, Angola, huge empty building estate, 2011.

Los Angeles-based writer Geoff Manaugh (US) provides illustrated architectural news and conjecture on his well-known BLDGBLOG. He is a former senior editor at Dwell magazine, a contributing editor to *Wired UK*, and author of the BLDBLOG book.

~~DARK AGE~~ ~~OF GLOBALISM~~

14:00-15:30

Expect a precise and caustic analysis of some of the dark areas of the transnational global economy in the first afternoon panel. Transnational capital, migration, free zones, tax havens...

Saskia Sassen
In the Shadows
of Powerful Systems

A powerful explanation is like a sharp circle of light on a dark street. But the more powerful that light, the more difficult it is to see what lies in the shadows around that circle of light.

Saskia Sassen (US) is Professor of Sociology, Columbia University. Among her many books, translated into over 20 languages, are *Territory, Authority, Rights* (2008) and *The Global City* (2001). The recipient of multiple honorary degrees and other awards, she was selected as one of Foreign Policy's 100 Top Global Thinkers of 2011.

Keller Easterling
Extrastatecraft

The free economic zone has become a contagious world city paradigm. While in the 1960s there were a mere handful of such zones around the world, today there are thousands, with some spanning hectares and some square kilometres. Operating under authorities independent from the domestic laws of its host country, the zone typically provides special infrastructures and a set of business incentives such as tax exemptions, foreign ownership of property, streamlined customs, cheap labour and deregulation of labour or environmental provisions. As the double or proxy of major cities and even national capitals, it is an ecstatic, media-genic celebration of tax havens, global corporate networks and 'extrastatecraft'.

Keller Easterling (US) is an architect, writer and professor at Yale University. Her books include *Enduring Innocence: Global Architecture and its Political Masquerades*, and *Organization Space: Landscapes, Highways and Houses in America*. A forthcoming book, *Extrastatecraft: Infrastructure Space and Political Arts*, examines global infrastructure networks as a medium of polity.

~~DARK~~ ~~FINANCE~~

16:00-17:30

Many of us have saved money in the bank for a rainy day, or invest it in the stock market. But most of us were largely ignorant about how the financial system works and what its shortcomings are before the financial crisis began in Autumn 2008. In this panel Ewald Engelen and Joris Luyendijk share their insights into the shadowy sides of the global financial system.

Joris Luyendijk
Everything you always wanted to
know about bankers and finance,
but were too angry to ask

After two major financial crises in less than five years democracy is looking more and more like a system where we decide which politician gets to implement what the financial sector dictates. Yet most people know more about ancient Egypt than they do about today's bankers and financiers. Who are these people? Having spoken to around 200 of them by now, I hope to be able to give you an idea of the people behind the headlines, the scandals and the corporate logos.

Joris Luyendijk (NL) is a writer and journalist. He works for the *Guardian* where he writes the experimental JLabankingblog, an online anthropological investigation into the world of finance. Luyendijk trained as an anthropologist and lived in the Middle East for six years. His book *Het Zijn Net Mensen* about journalism in the Middle East was a run-away bestseller.

Ewald Engelen:
Parasitic Banking

A lecture on the most current affairs in the dark world of banking.

Ewald Engelen (NL) is a Professor of Financial Geography at the University of Amsterdam and columnist for the *Groene Amsterdammer* and *Follow the Money*. He is the author of *Een ongeluk in slow motion* (*An Accident in Slow Motion*), a book about the crash of 2008 and its aftermath. His views on the current economic crisis have been described as unconventional.

ONTOLOGIES OF THE UNKNOWN

12:30-13:15

What if we do not take the unknown as something to be explored, and then to be anticipated and controlled, but as what it is at its most radical, namely something unknown? How can we view the world from the vantage point of the unknown?

Andrew Pickering
Varieties of Cybernetics:
Ontology, Critique, Politics

What is the allure of cybernetics, what draws people to it? We teach our children to think of the world as a predictable place bound by laws, natural as well as man-made. Modern science reveals what the consistencies are, enabling us to control the world and refashion it to suit our own ends. Politically, this is what many want to escape. This is where cybernetics comes in. Its ontology is different. It begins from the assumption that the world is ultimately unknowable, a place of emergence and becoming that will always surprise us.

Andrew Pickering (UK) is now Professor of Sociology and Philosophy at the University of Exeter and currently a Senior Fellow at the Internationales Kolleg für Kulturtechnikforschung und Medienphilosophie (IKKM), Bauhaus University, Weimar, DE. His books include *Constructing Quarks*; *The Mangle of Practice*; and most recently, *The Cybernetic Brain*. His current research explores questions of agency and emergence in art and environmental management.



© Tim Maughan, Alan Tabrett, Laurie Eagle

Tim Maughan, Alan Tabrett, Laurie Eagle, *Paintwork*, 2013.

SUN 24 FEB
12:30-16:45
DE BALIE

FUTURES OF SCIENCE
AND FICTION

CONFERENCE 45

~~FUTURES OF SCIENCE AND FICTION~~

13:30-15:30

For Sunday afternoon we have prepared an impressive line-up of speakers in close collaboration with the magazine *Arc*, a futuristic collection of fact, fiction and opinion from the makers of *New Scientist*. Time to speculate on the future...

Tim Maughan
Watching Paint Die

Groundbreaking science fiction writer Tim Maughan has been exploring augmented reality for several years now, particularly in his critically acclaimed collection *Paintwork*. For *Sonic Acts* he puts his money where his mouth is, and gives us a first glimpse of his fully realised AR exploration of media, perception, austerity and social class.

In 2011 Tim Maughan (UK) released the critically acclaimed *Paintwork*, a collection of three short stories dealing with the roles of art, celebrity and globalisation in a very near, and strangely familiar, future. He's currently working on his debut novel, another near-future piece exploring the social and cultural impact of hacktivism, online protest and cyber warfare.

Frank Swain
Leaving Nothing to the
Imagination: Maps, Monsters,
and the Importance of
Uncharted Lands

From the immortals of Hyperborea to the antipodes of Terra Australis, we have filled undiscovered lands with the creatures of our dreams. But as our maps expand to cover the universe, what space is left for these mythical races, and what will become of them? Frank Swain argues for curbing the cartographers.

Frank Swain (UK) is preoccupied with how our innovations shape our future and ourselves. He has produced content for *New Scientist*, *Wired*, BBC Radio 4 and Radio Bravo among others. His first book, *How to Make a Zombie: The Real Life (and Death) Science of Reanimation and Mind Control*, will be published in Spring 2013.

Simon Ings
Cupid's Dart

Simon Ings explores a world without visible light: a world in which the sense of sight is explained by an odd-sounding theory of vision called 'extromission', that held the world in its sway and served science well for over a thousand years.

Simon Ings (UK) is the editor of *Arc*. He has written several well-received novels, including *Dead Water and The Weight of Numbers*, as well as a study about the eye, *The Eye, A Natural History*.

Alastair Reynolds
White Noise

Troubled that we appear to be alone in the universe, in 1950 the physicist Enrico Fermi posed a famous cosmological puzzle, known as Fermi's Paradox: if

intelligent life is possible here and now, why is there no sign of it elsewhere? Three years ago Alastair Reynolds was working at the Research and Technology Centre, part of the European Space Agency. It was here, building a superconducting camera to record tiny energy fluctuations in deep space, that Reynolds came up with one possible solution to Fermi's puzzle – one that's fuelled one of the most successful science fiction careers of the millennium.

Alastair Reynolds (UK) turned to full-time writing in 2004, after a career in space science. His novels include the Arthur C. Clarke Award-nominated *Revelation Space*, *Pushing Ice* and *House of Suns*.

CLOSING LECTURE

16:00-16:45

The last lecture of the conference will be by Goodiepal. In his inimitable way he will reflect on the theme of *The Dark Universe*.

Goodiepal
Closing Lecture

Goodiepal (Gæoudjiparl) (FO/DK) is a controversial musician and composer of his own kind of radical computer music. He declared intellectual war against the stupidity in modern computer music and media art when he quit his job at the Royal Academy of Music in Aarhus. He performs and lectures about his work and ideas worldwide and travels on his special bicycle, which enables him to produce the electricity he requires. In this way he gets closer to mechanics and experiments with transhumanism. His recent book *El Camino del Hardcore* features his graphic notation work.

EXHIBITION & PRE-FESTIVAL EVENTS & MASTERCLASSES

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~~EXHIBITION~~ ~~THE DARK~~ ~~UNIVERSE~~

The Dark Universe is the unknown universe, the universe that remains mysterious. *The Dark Universe* is also the weird universe that draws us in and enfolds us in its shroud, blacker than burned black. Seekers of the unknown and the undiscovered must be able to imagine the impossible. Where science uses technology to reveal what lies beyond the scope of our perceptions, *The Dark Universe* exhibition displays works that use light and sound to seduce and confuse the senses, works that explore the boundaries of our perception.

The Dark Universe exhibition features *Supernova (Cassiopeia A)* by Félicie d'Estienne d'Orves; *Revolver* by HC Gilje; Ivana Franke's *Seeing With Eyes Closed*; *Event Horizon* by Matthew Biederman; Matthijs Munnik's *Citadels: Lightscape V*; *Black Rain* by Semiconductor; *Materia Obscura* by Jürgen Reble; *~kulunka~* by Yolanda Uriz Elizalde; and the soundwalk *Spectral Analysis WG* by Justin Bennett.

Kicking off the festival, *The Dark Universe* exhibition opens on 12 January with a programme of live performances in collaboration with Viral Radio, NASA and OT301. The event starts at 21:00 hrs with performances by Cut Hands, Peter Swanson, Raime, Lee Gamble, and Juha vs. H-SIK.

The works and the artists are detailed in the separate exhibition brochure, available free of charge at NASA.

TALK/DOCS

Several smaller Sonic Acts events will be presented in the weeks leading up to the festival. These will get you in the mood for the four-day *The Dark Universe* festival. On three consecutive Wednesdays there is a guided tour through the exhibition, and an interview with one of the artists. This is followed by the screening of a documentary connected to the festival theme.

Wednesday 23 January 2013

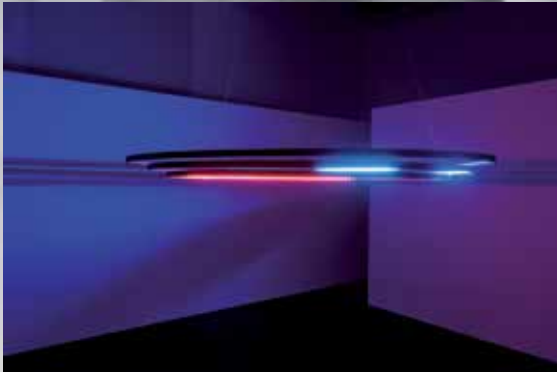
Guided tour through the Sonic Acts exhibition by Sonic Acts curators at NASA at 19:00 hrs, followed by an artist talk with Yolanda Uriz Elizalde and the screening of *Nostalgia de la Luz* by Patricio Guzmán (2010, CL, 90', BluRay) at 20:00 hrs at Melkweg Cinema.

Wednesday 30 January 2013

Guided tour through the Sonic Acts exhibition by Sonic Acts curators at NASA at 19:00 hrs, followed by an artist talk with Matthijs Munnik and the screening of *Picture of Light* by Peter Mettler (1994, CA, 85', 35mm) at 20:00 hrs at Melkweg Cinema.

Wednesday 6 February 2013

Justin Bennett's soundwalk *Spectral Analysis WG* starting at NASA at 19:00 hrs, followed by an artist talk with Justin Bennett and the screening of *Cosmic Station* by Bettina Timm (2008, DE, 30', 35mm) at 20:30 hrs at Melkweg Cinema.



© Ed Jansen

HC Gilje, *Revolver*, 2013.



© Ed Jansen

Matthew Biederman, *Event Horizon*, 2012.

~~TASTE THE DOOM 8 (SONIC ACTS EDITION)~~

Drink excellent whisky and listen to a splendid mix of Doom Metal and related music. We will spoil you with a handpicked selection of seven outstanding whiskies. Each dram (a measure of whisky) will be accompanied by songs specially selected to match each brand. Lars Lundehave Hansen and Peter Votava will host this event. Due to the intimate setting there is a limited ticket availability. Please book your ticket in advance.

For the past fourteen years Lars Lundehave Hansen (DK) has been working in the fields of ambient/drones and noise. Peter Votava (AT) has been making music for over 20 years with his main projects Pure, Aillsa Gold, Prszr, Heart Chamber Orchestra and Bolder.

~~MASTERCLASSES & WORKSHOP~~

The masterclasses provide a unique opportunity for artists, musicians and other creative professionals to work with five internationally renowned artists. In a concentrated and intimate setting, participants will gain insight into the artists' concepts, work processes, and methods of composition, production and research through hands-on workshops, discussions, and seminars.

The masterclasses are aimed at professional artists, musicians, composers, filmmakers, academics and advanced students. Deadline for applications is 5 February. Please send a biography and a short motivation outlining why you would like to take part in a specific masterclass to: masterclass@sonicacts.com.

Tony Conrad

Tony Conrad (US) is an avant-garde video artist, experimental filmmaker, musician/composer, sound artist, teacher and writer. He is a pioneering force behind the evolution of minimalism. Conrad's masterclass will be an extended lecture performance about his work, artistic concepts and thoughts, touching on his film work (*The Flicker*) and his drone music.

Goodiepal

Goodiepal (Gæoudjiparl) (FO/DK) is a controversial musician and composer of his own kind of radical computer music. He declared intellectual war against the stupidity in modern computer music and media art when he quit his job at the Royal Academy of Music in Aarhus.

CM von Hausswolff / Mike Harding

CM von Hausswolff (SE) is a composer and a conceptual artist. Sound recording devices are his main instrument as a composer; as a conceptual artist he works with performance art, light- and sound installations and photography. Mike Harding (UK) is a curator, producer, lecturer and music publisher. He runs the Touch label together with Jon Wozencroft. In the masterclass led by CM von Hausswolff & and Mike Harding, participants will work on their own version of *freq_out*.

Trevor Paglen

Trevor Paglen (US) deliberately blurs the lines between science, contemporary art, journalism and other disciplines to construct unfamiliar, yet meticulously researched ways to see and interpret the world. Trevor Paglen's masterclass focuses on his methodologies and the different ways of conducting research.

Steina & Woody Vasulka

Steina & Woody Vasulka (IS/CZ/US) are major figures in video history – technical pioneers who have contributed enormously to the evolution of the medium and who continue to be major practitioners of video as art. The Vasulkas' technological investigations into analogue and digital processes and their development of electronic imaging tools, which began in the early 1970s, place them among the primary architects of an expressive electronic vocabulary of image-making.

The masterclass will be a discussion of the development of their practice and working methodologies, and will reflect how the change of technologies and interfaces influences the presentation, documentation and archiving of their work.



Trevor Paglen, *The Last Pictures*, 2012.

Describing the Indescribable

The critical writing workshop by Sonic Acts and Gonzo (Circus) takes place during the festival. It starts with an introductory meeting, followed by a series of working sessions on each festival day. Workshop participants will cover the performances, conference, exhibition and other festival events. Experienced journalists and writers will share insights into specific aspects of their writing and provide feedback on the texts written by the workshop participants during Sonic Acts. The workshop is aimed at a maximum of 20 emerging writers. Applicants are asked to submit a short motivation and CV before 31 January 2013 to write@sonicacts.com.

Interdisciplinary European Festival & Organisation Meeting

Sonic Acts also provides an excellent opportunity for festival organisers, curators and other professionals to exchange ideas and meet each other. Meetings by invitation only. European Festival Brunch on Sunday 24 February 11:00 hrs at De Balie.

Publication Sonic Acts XV
The Dark Universe
Available in May 2013

The book accompanying this year's festival – and reflecting on it – will be edited by Arie Altena and Sonic Acts. The richly illustrated printed book will feature interviews with Matthew Biedermann, Gert-Jan Prins, Matthijs Munnik, HC Gilje, and others, as well as new texts by Andrew Pickering, CM von Hausswolff, David Munns, Raviv Ganchrow, and much more. Design by Bitcaves. The book will be available in the Sonic Acts online shop in May 2013 – pre-order at the festival at a discounted rate.



Sonic Acts Conference & Festival Passepourtout

€ 80 / € 70 reduced

Festival Passepourtout

(excl. conference)

€ 50

Talk/Doc

23 or 30 Jan or 6 Feb,
20:00, Melkweg Cinema
€ 7 / 6

Taste The Doom 8

17 Feb, 19:00, OT 301
€ 25

Festival Opening

21 Feb, 19:00 (doors 18:30)
Stedelijk Museum
€ 17.50 / € 2.50
(Museumjaarkaart holders)

Evening Tickets Paradiso

22 or 23 Feb, 20:00
€ 17.50 / € 15

Evening Ticket Vondelkerk

24 Feb, 20:00 (doors 19:30)
€ 10 / € 7.50

Conference Day Ticket

22 or 23 Feb 10:30-17:30
24 Feb 12:30-16:45
€ 20 / € 17.50

Day-Evening-Night Ticket

22 or 23 Feb, 10:30-05:00
De Balie & Paradiso
€ 30 / € 27.50

Day-Evening Ticket

23 Feb 13:00-21:00
De Balie & Vondelkerk
€ 25 / € 22.50

The Bright Universe

22 Feb 00:00-05:00
Paradiso
€ 15

Sonic Dread

23 Feb 23:30-05:00
Paradiso
€ 13.50

Reduced admission is available for students, CJP and 65+ with exception of Taste The Doom & Festival Opening. The programme is subject to change. For additional information about the programme and updates: sonicacts.com

Public Transport

For De Balie & Paradiso take trams 1, 2, 5, 7 or 10 to Leidseplein.

For Stedelijk Museum Amsterdam take tram 2 or 5 to van Baerlestraat.

From De Balie/Paradiso to NASA take tram 7 to Ten Katestraat, or walk through the Vondelpark (15 min.).

For Vondelkerk walk from Leidseplein through the Vondelpark (5 min.).



1. Paradiso
Weteringschans 6
1017 SG Amsterdam

2. De Balie
Kleine
Gartmanplantsoen 10
1017 RR Amsterdam

3. Stedelijk Museum
Amsterdam
Museumplein 10
1071 DJ Amsterdam

4. NASA
Arie Biemondstraat 111
1054 PD Amsterdam

5. OT301
Overtoom 301
1054 HW Amsterdam

6. Melkweg Cinema
Lijnbaansgracht 234A
1017 PH Amsterdam

7. EYE
IJpromenade 1
1031 KT Amsterdam

8. STEIM
Achtergracht 19
1017 WL Amsterdam

9. Muziekgebouw
aan 't IJ
Piet Heinkade 1
1019 BR Amsterdam

10. Vondelkerk
Vondelstraat 120-D
1054 GS Amsterdam

10:00 Thursday 21 February 2013

11:00

12:00

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18:00

19:00

19:00–22:00 Festival OpeningAnil Ananthaswamy, freq_out,
Matthijs Munnik

Stedelijk Museum Amsterdam / p. 7

20:00

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**12:00–22:00
The Dark
Universe
exhibition**Félicie
d'Estienne
d'Orves
HC Gilje
Ivana Franke
Matthew
Biederman
Matthijs Munnik
Semiconductor
Jürgen Reble
Yolanda Uriz
Elizalde
Justin Bennett

NASA / p. 49

10:00 Friday 22 February 2013

11:00

10:30–12:30 Exploration of the UniverseGerard 't Hooft, Pascale Ehrenfreund,
David P. D. Munns
De Balie / p. 30

12:00

13:00

14:00

14:00–15:30 Dark SignalsHonor Harger, Raviv Ganchrow
De Balie / p. 32

15:00

16:00

16:00–17:30 The Dark Side of the UniverseRaphael Bousso, Michael Doser
De Balie / p. 34

17:00

18:00

19:00

20:00

20:00–00:00 Spectral BlissJoost Rekveld, William Raban,
Theo Burt & Tim Wright, Rose Kallal,
Joris Strijbos & Yamila Ríos,
Makino Takashi, Synchronator Orchestra

Paradiso main hall / p. 15

21:00

22:00

23:00

00:00

24:00–05:00 Indigo Aera Meets Tape: The Bright UniverseJames Ruskin, Maarten Mittendorf & Jasper Wolff,
Juju & Jordash (live), Tape Residents.

Paradiso / p. 20

01:00

02:00

03:00

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05:00

**12:00–22:00
The Dark
Universe
exhibition**Félicie
d'Estienne
d'Orves
HC Gilje
Ivana Franke
Matthew
Biederman
Matthijs Munnik
Semiconductor
Jürgen Reble
Yolanda Uriz
Elizalde
Justin Bennett

NASA / p. 49

**20:00–23:00
Eucariotic Punk**
Nenad Popov
& Klara RavatParadiso small hall
p. 20

10:00 **Saturday 23 February 2013**

11:00 **10:30–12:30 Dark Planet**
Trevor Paglen, Andrew Blackwell,
Geoff Manaugh
De Balie / p. 37

13:00
14:00 **14:00–15:30 Dark Age of Globalism**
Saskia Sassen, Keller Easterling
De Balie / p. 40

16:00 **16:00–17:30 Dark Finance**
Joris Luyendijk, Ewald Engelen
De Balie / p. 41

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20:00–23:30 The Nuclear Sublime
Bruce Conner, Clausthorne & Mārtiņš
Ratniks, Biosphere & Lustmord & MFO,
Peter Tscherkassky, Yousuke Fuyama,
Maja Solveig Kjelstrup Ratkje & HC Gilje,
Aldo Tambellini

Paradiso / p. 21

23:30–05:00 Sonic Dread
The Bug feat Flowdan & Miss Red, Dean Blunt, patten, Mika Vainio,
Coki, Kahn, Sully, Dead Fader, Loops Haunt, Juha, H-SIK, Dariyan

Paradiso / p. 27

**12:00–22:00
The Dark
Universe
exhibition**

Félicie
d'Estienne
d'Orves
HC Gilje
Ivana Franke
Matthew
Biederman
Matthijs Munnik
Semiconductor
Jürgen Rebbe
Yolanda Uriz
Elizalde
Justin Bennett

NASA / p. 49

**20:00–23:00
Eucariotic Punk**
Nenad Popov
& Klara Ravat

Paradiso small hall /
p. 20

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10:00 **Sunday 24 February 2013**

11:00
12:00
13:00 **12:30–13:15 Ontologies of the Unknown**
Andy Pickering De Balie p. 43

14:00 **13:30–15:30
Futures of Science and Fiction**
Alastair Reynolds, Tim Maughan, Frank
Swain, Simon Ings
De Balie / p. 45

16:00 **16:00–16:45 Closing Lecture** Goodiepal
De Balie / p. 47

17:00
18:00
19:00
20:00
21:00
22:00
23:00
00:00
01:00
02:00
03:00
04:00
05:00

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20:00–21:00 Closing Performance
Edwin van der Heide & Jan Peter Sonntag / Vondelkerk / p. 28

**12:00–22:00
The Dark
Universe
exhibition**

Félicie
d'Estienne
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The Sonic Acts festival - *The Dark Universe* takes place from 21-24 February 2013 in Amsterdam. The exhibition *The Dark Universe* is open from 13 January - 24 February.

Information & tickets

www.sonicacts.com

Sonic Acts - *The Dark Universe* is curated, compiled and produced by Arie Altena, Nicky Assmann, Martijn van Boven, Gideon Kiers, Lucas van der Velden and Annette Wolfsberger.

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www.sonicacts.com

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