

## **PIKSEL18 Buzzocrazy!**

22nd - 24th November

Piksel Studio 207

Strandgaten 207

5004 Bergen

# **WORKSHOPS announcement- Piksel Studio 207**

## **PIKSEL18 Buzzocrazy!**

The 16th annual Piksel Festival for Electronic Art and Free Technologies

- Workshops.
- November 22nd-24th, Bergen (NO)
- <http://18.piksel.no>



Buzzocrazy! The Piksel18 festival slogan points to the new era of “post-truth” based on appeals to emotion rather than policies and facts. Stretching the truth can be seen as just part of a game. The post-truth affects how we make sense of the world around us. That phenomenon has a name — agnotology, the study of culturally induced ignorance or doubt, particularly the publication of inaccurate or misleading scientific data.

Piksel 18 Buzzocrazy! Claims to repair the hive mind. The global consciousness has been manipulated and we have to bring it back again from echo-manipulation to eco-pollinization, we seek the bee drones as the new metaphor to restore the logic ecosystem.

PIKSEL18 - BuzzOcrazy!

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Workshops Programme:

All workshops are free to attend.

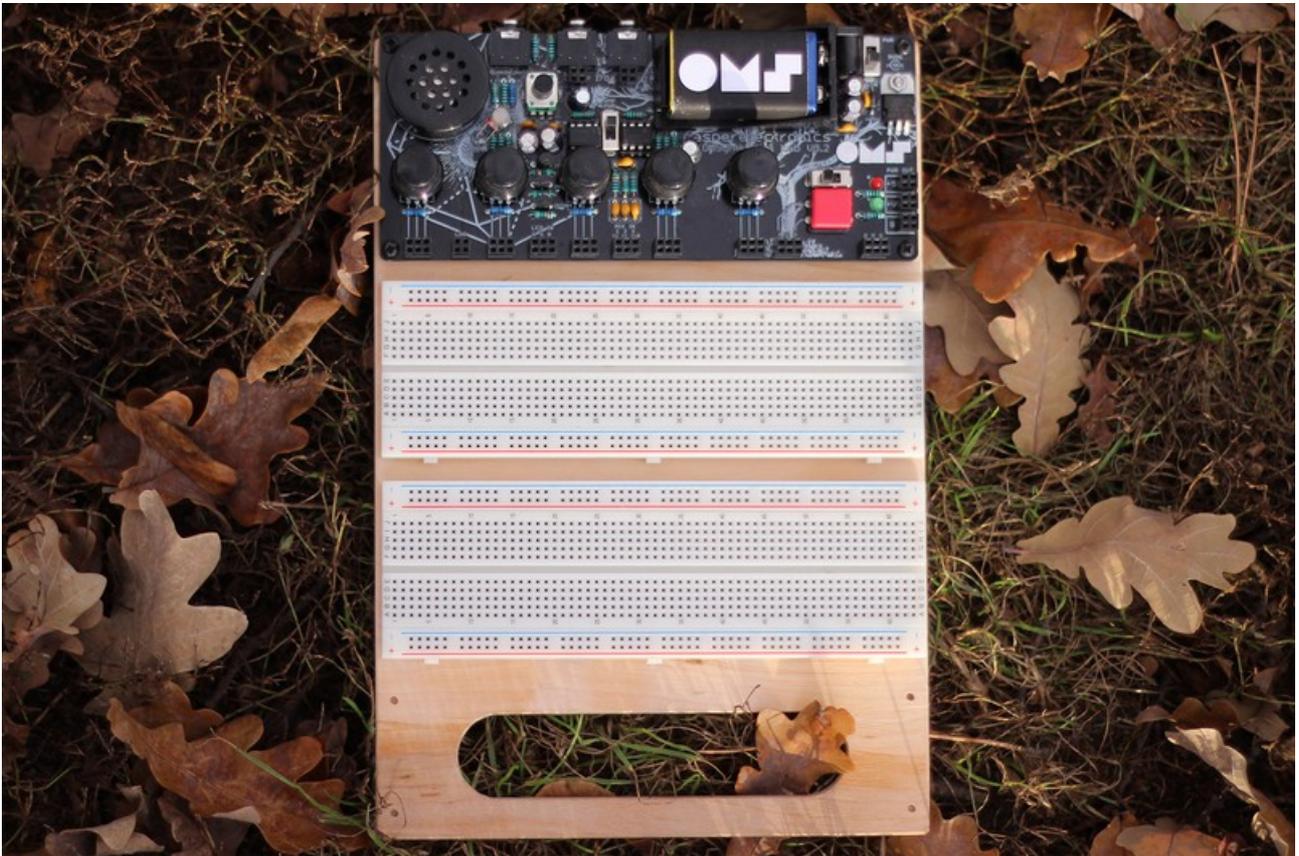
To sign up send an email to: [prod\(at\)piksel\(dot\)no](mailto:prod(at)piksel(dot)no)

## **OMSynth: DIY electronics and building audio circuits from scratch Workshop by Peter Edwards**

23rd Nov

Building: SKUR14

Date: 15:00-18:00



In 2013 Peter presented the early stages of a DIY circuit building interface called the Open Modular Synthesizer (OMSynth).

In this lecture he will share how the OMSynth has evolved from an idea to a product and how it challenges many of the established norms of DIY electronics practice. Along the way he will also discuss a call for a new standard of DIY circuit design in the post SMT (surface mount electronics) age.

Participants will build an experimental sound circuit from scratch using the OMSynth.

**Peter Edwards** is an American artist, musician, and teacher. He has been exploring the field of circuit bending and experimental musical electronics since 2000 through his business Casperelectronics. He performs regularly under the same name.

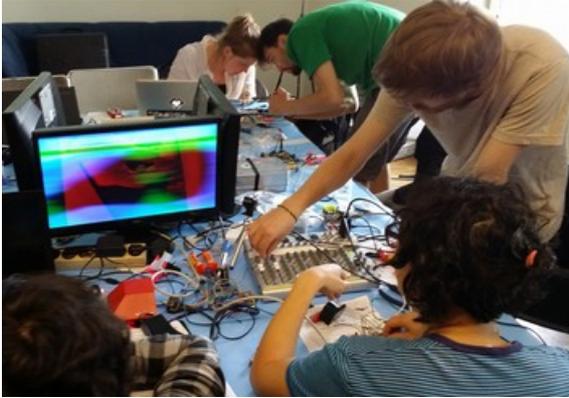
Edwards has performed, taught workshops and spoken on the topic of circuit bending and creative electronics at MIT's Media Lab, Hasbro Toys, Hampshire College, Skidmore College, New York University, Bloomfield University, Long Beach University, Georgie Southern University and at new media festivals around the world including The Píksel Festival (Bergen, Norway).

## Weird Signal Processing - a VGA Hacking Workshop by Wolfgang Spahn

24th Nov

Building: SKUR14

Date: 15:00-18:00



Name Yune Paik is known for manipulating a TV set with a magnet. One might think that after we abandoned monitor tubes the combination of TV and magnetism is gone as well. But similar techniques are still possible today by manipulating the monitor signal.

The fact that most signals used to connect devices via wires are based on electric current allows for easy hacking. For example one can manipulate the VGA video signal flow with coils and magnetic fields. The signal being similar to sound signals makes for an easy transfer to sound and vice versa. One can make a video signal hearable and display an audio signal on a monitor.

In the workshop we will process VGA signals. We learn the basic about the VGA standard and how to manipulate, mix and sonificate the signal, how to amplifier, invert and add fast video signals. Every participant will build a VGA breakout board that allows easy access to the signal.

Please bring your own laptop (with a VGA connection or converter), an Arduino and or your Raspberry Pi if you have some.

**Wolfgang Spahn** (\*1970, Austria) is a visual artist based in Berlin. His work includes interactive installations, videos, projections, and miniature-slide-paintings. After having studied mathematics and sociology in Regensburg and Berlin he founded the screen-printing-studio at Tacheles. He also managed various art projects e.g. Schokoladen Mitte and was one of the artists at Meinblau, Berlin. He currently teaches at the BBK-Berlin, Medienwerkstatt and is associated lecturer at the University of Paderborn, department of art.

International exhibitions (selection): 2000 Biennial of young Art in Genua, Italy, 2003 The Kosovo Art Gallery in Pristina, Kosovo, 2005 Biennial in Prague, Czech Republic, 2008 and 2009 Internationales Klangkunstfest in Berlin, 2009 The Art of the Overhead in Malmö, Sweden, PIXEL09 and 10 in Bergen, Norway, 2010 Biennial Of Miniature Art in Serbia, 2010 Media-Scape in Zagreb, Croatia, Transmediale 2012, Berlin.

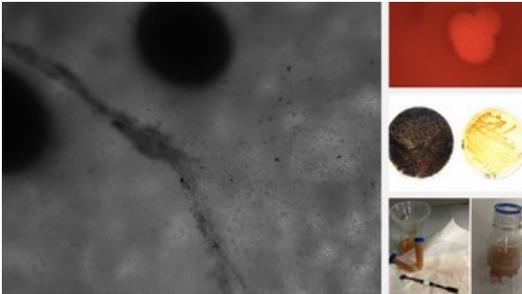
## PIKSEL BIO LAB 2018 WORKSHOPS

### The Umwelt of the Forager: on Bees, pheromones and bacteria by Anne Marie Maes

23<sup>rd</sup> and 24<sup>th</sup> Nov

Building: Pikel Studio 207

Date: 15:00-19:00



The workshop -the Umwelt of the Forager- will be studying the bio semiotics of the beehive & its ecosystem. The workshop will be organized as a DIY BioLab: the starting point is the role of pheromones and the important task these signifiers play for the communication in the beehive and for the relation of the bees to their ecosystem.

Participants will be sensing the ecology of the beehive and interpret the emergence of symbols. They will be detecting the granularity of waves formed between bacterial signals and the signs emitted through invisible (bio)technologies. In several hands-on sessions the microbial sphere in and around the beehive will be studied under the microscope. Participants will prepare agar plates to culture bacteria and spores that they collect at the intersection of places, called the Umwelt of the Forager (bee). They will 'design' with bacteria and reflect upon shared habitats for bees and other micro-organisms.

**Anne Marie Maes** is an artist who has been studying the tight interactions and co- evolutions within urban ecosystems. Her research practice combines art and science with a strong interest for DIY technologies and biotechnology. She works with a range of biological, digital and traditional media, including live organisms. Her artistic research is materialized in techno-organic objects that are inspired by factual/fictional stories; in artefacts that are a combination of digital fabrication and craftsmanship; in installations that reflect both the problem and the (possible) solution, in multispecies collaborations, in polymorphic forms and models created by eco-data.

<https://annemariemaes.net>

## Radio Mycelium & How I Hack Plant Conversations by Martin Howse and Mindaugas Gapševičius

23rd Nov

Building: Píksel Studio 207

Date: 10:00-14:00



Radio Mycelium & How I Hack Plant Conversations

Martin Howse, Mindaugas Gapševičius

Keywords: Installation, tutorial, toolkit, experiments

The project invites us to experience interspecies communication and feedback loops between mycelium networks and their habitats, including other organisms and beings. It also proposes the examination of a new networked imaginary between electrochemical signals, digital data, and electromagnetic waves. The project invites the user to experience plant to plant or plant to fungi interaction by connecting an electronic interface and converting data from electrochemical to digital and back to electrochemical signal. Using allelopathy as a metaphor for plant interaction, the project questions the mechanism of translation of signals, which, through the number of generations are influenced by the information from outside, including its own transmitted information. The experiments introduced in the tutorial will give an idea of how to grow mycelium, how to make electronic tools and attach them to living organisms, and how to use the tools for audiovisual expression. During the hands on session, we will do four experiments:

- Start growing mycelium on coffee grounds;
- Sense electric potentials in living organisms;
- Assemble and test the mycelial radio transmitter;
- Use built tools and a Pd patch provided for audiovisual expression.

The experiments are facilitated by Mindaugas Gapševičius.

Mindaugas Gapševičius, <http://triple-double-u.com/>

Martin Howse, <http://www.1010.co.uk/org/>

**Martin Howse** is occupied with an artistic investigation of the links between the earth (geophysical phenomena), software and the human psyche (psychogeophysics), proposing a return to animism within a critical misuse of scientific technology.

**Mindaugas Gapševičius** (b 1974) is an artist, facilitator, and curator living and working in Berlin and Vilnius. He earned his MA at Vilnius Academy of Arts in 1999 and started MPHIL/PhD program at Goldsmiths University in 2010.

## PIKSEL KIDZ LAB 2018 EDITION

### City GO! DIY Traffic lights of air pollution by Hamilton Mestizo

5<sup>th</sup> – 7<sup>th</sup> November – 10:00- 14:00

8<sup>th</sup> - 9<sup>th</sup> November – 14:00 -18:00

Building: Píksel Studio 207

To participate send and email to [piksel18\(at\)piksel\(dot\)no](mailto:piksel18(at)piksel(dot)no)

Do It Yourself Traffic lights of air pollution is an eco-design workshop for kids. Kids will be assembling "air traffic lights" that visualise the pollution in our cities. The goal is to experiment with a sensor which detects levels of Carbon Monoxide (CO) concentrations, the main gas produced by gasoline and diesel cars and go to the city and test them in the urban environment.

The project mixes artistic, environmental and social concerns and adheres to the design principles of open hardware and software: Everyone is invited to learn how the electronics and the code functions in order to be able to modify it.

#### Hamilton Mestizo (CDMX, Mexico)

Hamilton Mestizo explores the interfaces of arts, science and technology and their critical, ecological, and social-cultural implications. In the last decade, Mestizo has combined his artistic practice with education and research focused on open source hardware development, DIY-DIWO culture, new media and biotechnology.



**City TECH! SONORATEC! en kunstlab med nye medier for barn! by Oda Bremnes (Norway), Margarita Ardila (Colombia)**

12<sup>th</sup> - 14<sup>th</sup> – 10:00- 14:00

15<sup>th</sup> - 16<sup>th</sup> November – 14:00 -18:00

Building: Píksel Studio 207

To participate send an email to piksel18(at)piksel(dot)no

Sonorartec is a lab where the kids learn the basics of electronic to produce sound with drawn images, toys with lights, plastic pianos, ... recycling everyday materials. What we will do? Build different devices which permit kids to experiment with leds, circuits, sound, graphics, creative writing, and much more.



**Oda Bremnes (Norway)** is a third year of bachelor's degree at the Department of Art at the Faculty of Arts, Music and Design, UiB (further Art and Design College in Bergen). She is working on new media. mainly video, installation and electronics.

**Margarita Ardila (Colombia)**

Margarita Ardila is a Colombian maker, composer and sound researcher. Multidisciplinary artist coordinator and workshop of SONORARTEC LAB, laboratory oriented to the application of new media in the art, design, education.

## City TECH! Electrotextile! Customize your clothes or accessories with LEDs! by Pauline Vierne (France)

12<sup>th</sup> - 14<sup>th</sup> – 10:00- 14:00

15<sup>th</sup> - 16<sup>th</sup> November – 14:00 -18:00

Building: Piksel Studio 207

To participate send and email to piksel18(at)piksel(dot)no

Electrotextile workshop is a practical and theoretical workshop to make, remix and intervene your accessories and garments through the manufacture of soft and flexible electronic circuits.

The participants will approach to the concept of "wearable technologies" and to the basic notions of electronics. To this end, circuits will be prototyped and creative projects will be developed by mixing textiles and materials capable of conducting electricity.

Kids will learn to make resistances and soft switches with cloth, felt, thread for lighting or sound applications and they can customize your clothes or accessories with LEDs!



### Pauline Vierne, France

Pauline Vierne completed an MA in Innovative Textiles at ENSAAMA, Paris, and works as an e-textile researcher at the Design Research Lab, Berlin University of the Arts since 2014. Using experimental design and practice-led processes, her work bridges conductive and unconventional materials using traditional craft techniques to explore new materiality.