

16-19 OCTOBER

PRINT YOUR LIFE

3D-PRINTER FESTIVAL 2013

WEDNESDAY OCT 16th

WORKSHOP

16:00 - 18:00

COOKIE CUTTER WORKSHOP

BASIC WORKSHOP FOR YOU, WHO HAS NEVER TRIED 3D-PRINTING.

You'll learn how to design and print, which isn't as difficult as you might think. You don't have to be experienced in using computers or 3D-printing. The only thing you have to bring is your creativity and a computer. Within an afternoon you will create your own cookie cutter to take home with you.

Max. 12 participants.

Don't forget to sign up:
ayotekcreate@gmail.com

Level: ● ○ ○

THURS OCTOBER 17th

WORKSHOP

10:00 - 18:00

1-2-3D

WE UNDERGO THE PROCESS FROM IDEA TO FINISHED PROTOTYPE OR ART WORK.

For this workshop it is an advantage if you have some experience with 3D-printing or 3D-modelling.

The workshop is for you who has a concrete design problem you want to solve, or you who wish to create a 3D-printed sculpture, jewelry or something completely different.

We will bring 3D-printers. You bring your idea and a lot of patience. Together we will solve your problem and turn your creations into reality.

This workshop is not for beginners.

Don't forget to sign up:
ayotekcreate@gmail.com

Level: ● ● ●

FRIDAY OCT 18th

WORKSHOP

16:00 - 18:00

SCAN YOUR CITY

WE WILL BRING A 3D SCANNER OUT IN THE CITY AND SCAN THE SHAPES, SPACES AND SCULPTURES OF HAMBURG.

Together we will go for a walk in the city, and by means of our 3D-scanner we will collectively capture interesting things and shapes of the city. These scans we will later use as 3D models in the MASH-UP AND REMIXING workshop.

To be able to scan an object, the viewer has to observe the object from all sides, and pay attention to light and shadow, material and shape.

The workshop is perfect for you, who are interested in getting a new perspective on your city and the things around you.

In the MASH UP AND REMIXING workshop we will process the scans we capture.

Open for everybody.

Don't forget to sign up:
ayotekcreate@gmail.com

Level: ● ○ ○

WEDNESDAY OCT 16th

- SATURDAY OCT 19th

WORKSHOP

14:00 - 20:00

TINKER-TINKER

TOGETHER WE WILL ASSEMBLE AN OPEN SOURCE 3D PRINTER.

"Tinkering" means; a person who makes minor mechanical repairs, especially on appliances and apparatuses. Fixing and finding creative solutions.

During the festival the participants of the workshop will assemble a 3D printer from the Dutch company Ultimaker. This machine is famous for being the fastest open source 3D printer at the market with a fine printing quality.

If you have a 3D-printer that needs some fixing yourself, or you've bought a 3D printer kit yourself feel free to bring it, and together we will try to make it function.

Thomas Helbæk Petersen is an experienced 3D printer tinker. He has assembled and build several different open source 3D printers and last but not the least; he has made them print well!

At the moment Thomas is working on a big scale printer printing 1~3 meter.

If you have specific questions concerning your own printer, this is the chance to share knowledge and collect some good advice.

Don't forget to sign up:
ayotekcreate@gmail.com

Level: ● ● ○

THURSDAY OCT 17th

TALK

20:00 - 22:00

THE ETHICS OF OPENNESS

OPENNESS ISN'T JUST A CLEVER THING. IT IS ESSENTIAL!

The 3D printer as we know it couldn't exist if it wasn't for the open data, knowledge sharing and for the thousands of volunteers, who since 2007 have been working for creating and optimizing the open source home 3D printer.

Lina Bergstrøm is a sociologist and a 3D printer enthusiast. Through her field studies and with a her critical sociologist perspective she is exploring how open source is related to free knowledge sharing and hacker culture. She will describe some of the tendencies and struggles existing in relation to the development of technology and knowledge. In relation to this she will examine the conflicts of interest between state, market and civil society.

FRIDAY OCT 18th

TALK

18:30 - 19:00

FULLY AUTOMATIC

Joachim Glauche will introduce us to the world of fully automatic 3D-printers. He will also present us to CrystalScad: A way to program OpenScad 3D-models in Ruby.

<http://www.reprapsources.de>

SATURDAY OCT 19th

WORKSHOP

16:00 - 20:00

MASH-UP AND REMIXING

Mash up and remixing are both phenomena from the world of music. Small pieces of original music are put together in order to create new and exciting musical universes. This method we will transfer to the world of 3Dprinting.

We will process the scans that we captured in the SCAN YOUR CITY workshop. At first we simplify and "clean" the scans in a 3D program. Then we will experiment by putting the scans together in order to print new shapes. We will experiment with deconstruction, combination, taking out parts and putting together new ones.

We will also dive in to the universe of Thingiverse, where we find 3D models from all over the world. These we can combine with our scans from Hamburg.

Scanning, processing and printing 3D models is a time consuming process. Therefore we cannot guarantee that we can print all design on the day. Shapes that gives a strong representation of the city will be first priority. It will be possible to order you design for later printing though.

We recommend you also to take part in the SCAN YOUR CITY workshop, but this is not required.

Bring your own computer and imagination!

We recommend that you download and install the software Meshmixer in advance. Meshmixer is an open source 3D software.

Open for everybody.

You don't have to sign up.

Level: ● ● ○

THURSDAY OCT 17th

TALK

14:00 - 15:00

FROM LINE TO FORM

DANIEL THOMPSON WILL GIVE A LECTURE ON ARTISTIC AND AESTHETIC ORIGINALITY IN RELATION TO 3D-PRINTING.

An analysis of the creation of 3D originals in the age of mechanical RepRaproduction according to aesthetic values and artistic tools extant in the post-industrial revolution.

SATURDAY OCT 19th

TALK

20:00 - 21:00

ART IN 3D

ARTIST ROLF BERGMEIER WILL PRESENT US TO HIS ARTISTIC USE OF 3D PRINT TECHNOLOGY.

Rolf Bergmeier - Hamburg based artist - work as a sculptor. Among other materials he works with wood and oil. For the reproduction of his sculptures he decided to turn to the technology of 3D printing.

<http://www.rolfbergmeier.de>

SATURDAY OCT 19th

ART AUCTION

21:00 - 22:00

IST DAS KUNST ODER KANN DAS WEG?

THE LEGENDARY ART AUCTION GÄNGEVIERTEL STYLE!

Place a bit on the objects we produced during the festival. If nobody places a bit the object goes directly in the shredder!

The auction will finance the travel costs of the speakers.

WHAT IS 3D-PRINTING?

Open source 3D-printers are basically machines that most people would be able to put together at home. What a 3D printer can do is transforming a virtual 3D-model into a physical object by melting and "printing" a material - layer upon layer.

We're printing with PLA - a biologically degradable plastic, which is available in every color possible. Which makes it possible for you to experiment with colors, shapes and expression.

The festival is based on a variety of workshops and talks. The festival is open for everybody, also you, who never tried 3D-printing.

The festival is open for everybody. For most of the workshops you need to sign up!

If you have questions please contact:
louise_vind@platform4.dk

SATURDAY OCT 19th

TALK

18:00 - 19:00

THE CITY IS OUR FACTORY

Makers all everywhere! - 3D printing for the masses - a new hype has hit the scene. But there is more at stake than just this: New places of production in the city, a new form of production. Fab Labs are places where production, technical education and art come together in a completely new way. Fab Labs are the seed of a new infrastructure that offers high-tech for everyone. The motto is: The city is our factory!

Axel Sylvester and Niels Boeing are both active in the fablab "Fabulous Sankt Pauli".

SATURDAY OCT 19th

TALK

17:00 - 17:30

BIO PLASTIC

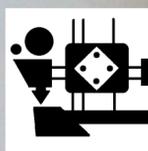
NEW MATERIALS FOR 3D-PRINTING. POTENTIALS - PROPERTIES - RESULTS

The decade of petrol based plastics is over! Benno Besler and Eva Dreyer believes that bio-plastics will replace petrol based plastic. They will present us to some of the bio-plastic materials that are available today, their potentials and properties and show us what you can do with these materials.

Together Benno Besler and Eva Dreyer started the company "Two bears" - specialized in sustainable materials. Soon they will be offering new filaments based on bio-plastics.

**GÄNGEVIERTEL
VALENTINSKAMP 34
DE-20355 HAMBURG**

www.ayotekcreate.dk
www.das-gaengeviertel.info



PLATFORM4

**KOMM
IN DIE
GÄNGE**