

June, 2014

# NEWSLETTER

## In this Issue

- News from NSCF
- Energy Discovery Centre
- Experimentarium
- AHHA
- Tietomaa
- Heureka
- Upcoming events

## Hot news from cold Nordic countries

The summer in Estonia has been mildly different from last winter (Midsummer night was 2 degrees hotter than Christmas evening). Supposedly this is the climate change and it's affects. The differences between seasons are coming smaller and smaller. In NSCF field the differences between science centres and museums are also diminishing. This spring brought the re-opening of Tallinn Energy Discovery Centre. I am happy to say that the renovating of beautiful science centre buildings is under the way in many other European Countries as well (Bremen, Germany; Copenhagen, Denmark, Stockholm, Sweden). Hopefully this is just the start and soon we all will have either new or newly renovated fascinating science centre or museum buildings. Those places are special and worthy of best presentation possible. The emotions we see every day in our visitors faces are invaluable.

Wishing you a sunny summer,

Pilvi Kolk

Chairman of NSCF,

Science Centre AHHA, Estonia



*The opening of Energy discovery Centre*

### NSCF Board 2013-2014:

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### ECSITE Annual Conference

At the end of May ECSITE Annual Conference took place in Netherlands. NSCF is a member of ECSITE and some of our members also. The 2014 edition brought together 954 participants from 48 countries in The Hague.

The conference was opened by Queen Maxima of the Netherlands and this year's conference theme was People Planet Peace.

There were tens of sessions in different subjects from exhibition building to evaluation. One of the most popular part of the conference was Maker Space. Maker movement is spreading wildly all along the world. Latest events took place in Sweden and Norway.

Next year's conference theme is 'Food for curious minds' and it will take place in Trento (Italy). Conference dates: 11-13 June 2015.



Maker Space in ECSITE Annual Conference



Conference venue Museon

### NSCF Annual conference and Explainers Conference

This year the two interesting NSCF activities have been united. Explainers Seminar will take place on 7-8. October and NSCF Annual conference will start right after and lasts until 9th of October. Please save the dates! Our host Navet in Sweden is expecting to see most of us! Registration will open soon.



### Keep your contacts up to date!

*As time passes many people change their positions and move forward. NSCF web-site wishes to offer only the correct information. Please take a minute and check, if the information about your Science Centre or Museum on our web-site is up-to date and the contacts are correct. Also, if your membership information has changed, let us know.*

*In case of corrections, please contact:  
[pilvi.kolk@ahhaa.ee](mailto:pilvi.kolk@ahhaa.ee)*



### New Market Place for your exhibitions!

NSCF for Members is now available in Facebook. If are not a member yet you would like to be, then please join! This is the place where you may sell your exhibits or offer exhibitions for rent.



## News from members

### Energy Discovery Center has re-opened the doors

By Liisa-Riin Stalde

Energy Discovery Center has re-opened the doors of its unique science center in a recently renovated 100-year-old power plant building, located at *Põhja puistee 29*, Tallinn, Estonia.

With the 3000 m<sup>2</sup> of exhibition area Energy Discovery Center is focused on science, physics and math and mostly targeted to children and families.

The building has retained the interior of the historic power plant, presenting a unique specimen of its time. In the building, more than 130 hands-on exhibits will attract the young and not so young inquisitive explorers. Themes like electricity, lightning, renewable energy sources, nuclear energy, sounds and optics, classical physics, etc. are interactively displayed. Our English-speaking guides are happy

to show you around but the text of the exhibits can also be found in English.

Highlight of the center is lightning demonstration with Tesla coil in a Faraday cage; this kind of combination, that allows to demonstrate up to 3-meter lightning bolts, is unique in Europe.

Energy Discovery Center also offers educational science theatre programs, workshops and a possibility to discover space in our new virtual planetarium.

The unique historical and industrial building is also a good place to hold your seminars, lectures and company events.

#### Opening hours:

Mon-Fri 10:00-19:00

Sat-Sun 11:00-19:00



*Discover the Art of Math" exhibition.*

*Exhibit – string sculptures*



*Faraday gage for lightning demonstrations*

## News from members

### Experimentarium appoints new CEO!

*Asger Høeg*

The Board of Experimentarium has appointed Kim Gladstone Herlev as new CEO. Kim Gladstone Herlev is currently deputy CEO at Experimentarium. He was recently in charge of the successful launch of Experimentarium City on Christiansholm Island in central Copenhagen.

Kim Gladstone Herlev says: "Experimentarium is in the throes of an extremely exciting period in its history. We have moved our exhibition from Hellerup to Christiansholm Island just opposite the Royal Danish Playhouse. We will be located here until early 2016, when an extended and refurbished Experimentarium will be completed. My goal is to get everyone who lives or stays in Copenhagen to pay us a visit on the island. This place is simply outstanding!"

Kim Gladstone Herlev is originally trained as a teacher. In the last 20 years, he has held leadership positions at Forenede Danske Brugsforeninger, The Danish Society for Nature Conservation and most recently at Experimentarium (since January 2003). He is one of a handful of international leaders to complete an 18-month leadership course at NOYCE Leadership Institute in California.

Kim Gladstone Herlev continues:

Most Danes know the Experimentarium. Over the past 23 years we have enthralled millions of people with our interactive and sensory exhibits and activities related to natural scientific phenomena. Experimentarium is a great success. But we won't be resting on our laurels. We will create magical transformations and we will empower the individual human being. We aim to make a substantial difference. The natural sciences and technology will play a key role in the knowledge-based society of the future.

Kim Gladstone Herlev will start work as CEO on 1 July 2014.

The present CEO, Asger Høeg, will continue in employment at Experimentarium, where he will be responsible for managing the final stages of the project to expand Experimentarium.



### Nordic consortium creates a Winter Sport exhibition

A new highly interactive Winter Sport exhibition opened this February in Experimentarium City in the centre of Copenhagen. The visitors have the possibility to try a number of winter sport disciplines and learn about some of the science behind the individual disciplines.

The exhibition has been produced in close cooperation between the 4 equal partners:

VilVite (Bergen),

Experimentarium (Copenhagen),

Heureka (Helsinki),

Tekniska Museet (Stockholm).

The exhibition is a travelling exhibition, for exhibition areas around 500 m<sup>2</sup> and will tour among the 4 partners until the end of 2017. After this it is available for renting. Experimentarium is responsible for the touring and can be contacted by interested venues.

**Contact :** Per Velk , [perve@experimentarium.dk](mailto:perve@experimentarium.dk)





## News from members

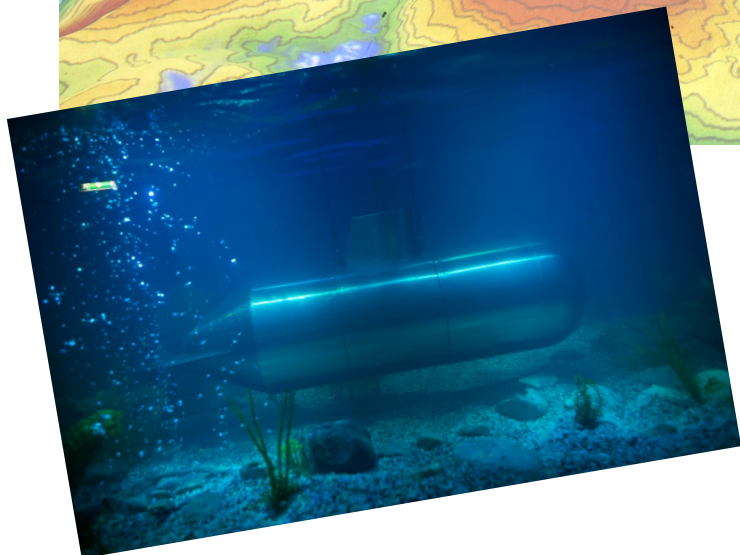
### Come and sink or sail in AHHA!

By Pilvi Kolk

On May 3 2014, AHHA opened a new exhibition: an exciting introduction to water physics and maritime disasters. This is a collaboration exhibition made by AHHA and Seaplane Harbour.

"Sink or Sail?" is the largest and technically most complex exhibition that has ever been made in Estonia. It's a magnificent adventure to the world of water physics and the history of marine travel. In the exhibition you can escape from a sinking ship, solve the great mystery of the Bermuda Triangle and find out what happens if you try to sail the sea in a rectangular boat.

"Sink or Sail?" is open until 2 November in AHHA;  
In 2015 it will be in Seaplane Harbour in Tallinn.  
Available for rent since 2016



### Most family friendly centre in Estonia!

AHHA Science Centre was recently awarded to be the most Family and children friendly place to visit in Estonia 2014. The award is given out by the Ministry of Social Affairs and magazine "Pere ja Kodu" and newspaper "Äripäev".

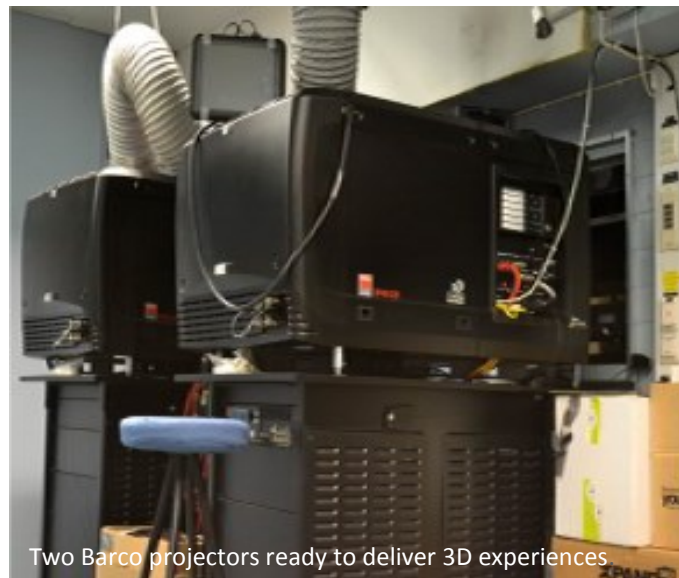
Photos by Kristina Kravets

### Tartu Mini Maker Faire

On 26<sup>th</sup> September 2014, the highlight of the Estonian Researchers' Night Festival, Science Centre AHHA invites all makers, creative minds and engineering enthusiasts to participate in the very first Mini Maker Faire of the Baltics!

Part science fair, part county fair, and part something entirely new, Maker Faire is an all-ages gathering where the participants range from tech enthusiasts to crafters, educators, hobbyists, engineers, artists, science clubs, students, authors, and commercial exhibitors. The venue brings together curious people who enjoy learning and who love sharing what they can do.

The preparations for the venue in Tartu are in full swing! The call for makers is now open and around 30 makers from Estonia and abroad have already registered. And there is certainly more to come! Students' science projects, robot mannequins, various craft makers, innovative mobile solution, experimental musical instruments, custom made bicycles, 3D printers, art installations are just a fraction of what you can see at the Tartu Mini Maker Faire in September.



Two Barco projectors ready to deliver 3D experiences

### Digital 3D in Tietomaa

Digital age has finally come to Tietomaa's super screen theatre. Original 8/70 mm analogue projector system was scrapped in the end of 2012, so the movie theatre has been without proper science film for 1,5 years.

New digital 3D system was installed in May this year and it uses two state-of-the-art Barco DP 4K-328 projectors. They represent technology so new that the latest software update hasn't been obtained yet. Because of that the first film is shown in 3D using only one projector. New silver coated white screen was also installed. Old 192 m<sup>2</sup> screen was replaced with 153 m<sup>2</sup> screen due to the current wide screen standard of the big screen cinema industry.

To boost the Age of the Dinosaur exhibition, which is located next to Tietomaa in the Oulu Museum of Art, the first film is Sea Rex 3D – Journey to a prehistoric world. It complements the "Dinosaur Summer" in Oulu very well. It tells the story of marine life in the Triassic, Jurassic and Cretaceous periods enhanced by the huge white screen and the 3D technology.

Tietomaa will open its' next own exhibition later on autumn titled Man Over Board, or MOB. Together with the new exhibition opens Tietomaa's next film, Sharks 3D, in November.

**Come and experience the wonders of sea and water later this year!**

Sampo Puoskari

Liaison Coordinator

Oulu Museum and Science Centre Luuppi





## News from members

### Summer of Dinosaurs

First big exhibition in the Oulu Museum and Science Centre Luuppi, Age of the Dinosaur from London Natural History Museum, has been a success so far. Located in the Oulu Museum of Art, which is right next to Tietomaa Science Centre, the exhibition has got good reviews in magazines and other media.

Exhibition includes 50 real fossil specimens, ten museum replicas of for example dinosaur skulls and seven life size animatronic (moving) dinosaur models. Most impressive of them are the Mongolian cousin of T-rex – Tarbosaurus Bataan – and the huge herbivore Camarasaurus. Some of the younger visitors find the animatronic area a bit too exciting with the floor trembling and quite loud roars from the bigger animals included. For them ear protection is available together with flashlights.

A purpose built dinosaur shop was made in Museum of Art to boost the exhibition. In Tietomaa Shop dinosaurs naturally rule this summer too. Students, who also act as exhibition guides, have developed activities for the children such as dinosaur song writing, different kind of building hobbies, acting etc.

### Active marketing

Age of the Dinosaur is exhibited for the first time outside Great Britain in Oulu. It was built in 2011, so it is a very new exhibition. Luuppi has marketed it in Finland, Northern Sweden and Norway together with Northern Russia. For marketing purposes a dinosaur costume dubbed “Masa” was purchased and it has made appearances in many events around Oulu and even in Murmansk. Those of you who attended Ecsite conference in Gothenburg 2013 saw similar costume in the Business Bistro.

The ideal number of visitors has been targeted to 60 000. So far everything has gone as planned and the animatronics have worked fine. Final visitor numbers will be available in the NSCF conference in Navet.

Age of the Dinosaur exhibition and Tietomaa Science Centre are open every day till 31.8.2014 from 10 am to 8 pm. Visitors can buy also a combination ticket for both exhibitions.

Sampo Puoskari

Liaison Coordinator

Oulu Museum and Science Centre Luuppi



*Age of the Dinosaur exhibition is indisputable attraction of Northern Finland this summer.*

## News from members

### HEUREKA Children's Heureka – it's fun for adults too!

*Heli Seppälä*

Saturday, 12 April 2014, is the launch date for the new Children's Heureka exhibition that encourages visitors to build, move and play, and challenge one another in various ball games. This activity-based exhibition is intended to inspire both children and adults and to encourage co-operation through fun and discovery.

This year, the Finnish Science Centre Heureka is particularly focused on children and families. The new Children's Heureka exhibition includes several of the most popular exhibits familiar from earlier exhibitions, such as the Moon Walk for children, as well as a wide range of completely new exhibits. The exhibition is divided into three themes: building, moving and playing, and ball games. The building exhibits develop cognitive skills and spatial perception. Working together to build a particular structure also requires co-operation skills. The exhibition has a lot of games, but the objective is not always to beat the opponent; rather, it is just about creating a playful atmosphere and developing your own skills. The ball game exhibits develop hand-eye coordination and reaction speed, while also activating the visitor's sense of motion, position and touch. Many of the exhibits can also be used by those who have some type of physical disability.

Children's Heureka 12 April 2014–24 January 2016.

#### Further information:

Jaakko Pöyhönen, Project Manager, tel. +358 (0)40 9015 218, [jaakko.poyhonen@heureka.fi](mailto:jaakko.poyhonen@heureka.fi)

Mikko Myllykoski, Experience Director, tel. +358 (0)40 9015 244, [mikko.myllykoski@heureka.fi](mailto:mikko.myllykoski@heureka.fi).



### An exciting new exhibition at Heureka: Under Cover!

The Under Cover! exhibition, opening on 5 June, introduces visitors to the significance of science and technology to modern defence forces by comparing the different methods people and animals use to defend themselves.

For instance, visitors will learn about animals that excel at hiding and creating diversions – and what people have learned from these species. As visitors check out the exhib-



its, they'll complete tasks and collect feedback in virtual research passbooks. The Avoid Surprises exhibit presents different ways of collecting real-time situational information about the environment. The Make Them Invisible exhibit allows visitors to try their hand at painting camouflage for use in forest and urban environments. At the end of the exhibition, visitors can compare different self-protection methods by playing the new Battleship 2.0 game. The exhibition was organised in cooperation with the Finnish Defence Research Agency.

Under Cover! is part of the main exhibition at Heureka, which also includes the Wind in the Bowels and About a Coin exhibitions and, from 16 June, the new Smart City exhibition.

#### For additional information, contact:

Project Manager Vesa Lepistö, Heureka, tel. +358 (0)40 9015 397, [vesa.lepisto@heureka.fi](mailto:vesa.lepisto@heureka.fi)

Experience Director Mikko Myllykoski, Heureka, tel. +358 (0) 40 9015 244, [mikko.myllykoski@heureka.fi](mailto:mikko.myllykoski@heureka.fi)

Chief Scientist Veijo Miihkinen, Finnish Defence Research Agency, tel. +358 (0)299 550 129, [veijo.miihkinen@mil.fi](mailto:veijo.miihkinen@mil.fi)





### Smart City challenges visitors at

#### Heureka

*By Heli Seppälä*

The new Smart City exhibition will be opened as part of Heureka's main exhibition on Tuesday, 17 June. Smart City provides an interesting and novel look at how cities work in the information age. Key characteristics of a smart city include ubiquitous information technology that blends into the urban environment, open information sources, and the participation of the city's residents in its development.

The Smart City exhibition showcases how information and communications technology is used to improve traffic, safety, energy-efficiency and environmental friendliness, for instance. Visitors will get to examine up-to-date traffic data maps on aircraft in European airspace, ships in the Gulf of Finland, and public transit in the Greater Helsinki Area, as well as learn how satellite positioning works. At the Driving Simulator 2.0 exhibit, visitors can drive from the centre of Tampere to the new

Rantaväylä lakeside route, assisted by the new smart features of the car. In the search and rescue ship simulator, the task is to find a person who has fallen overboard off the coast of Helsinki.

Smart City is part of the main exhibition at Heureka, which also includes the Wind in the Bowels, About a Coin and Under Cover! exhibitions. The same entry ticket also provides access to the Children's Heureka exhibition, the Heureka Goes Crazy exhibition on mental health, Heureka Classics and the Galilei Science Park.

The Smart City exhibition was organised in cooperation with ITS Finland ry, the Ministry of Transport and Communications, the Finnish Transport Agency, Finnish Transport Safety Agency Trafi, the Liikenneturva traffic safety association, Vaisala and Festo. The media partner of the exhibition is Vantaan Sanomat.

#### **For additional information, contact:**

Exhibition Producer Vesa Lepistö, Heureka, tel. +358 (0) 40 9015 397, [vesa.lepisto@heureka.fi](mailto:vesa.lepisto@heureka.fi)

Experience Director Mikko Myllykoski, Heureka, tel. +358 (0)40 9015 244, [mikko.myllykoski@heureka.fi](mailto:mikko.myllykoski@heureka.fi)



## Upcoming events

### NSCF Annual Conference

#### Science centres and the future

October 7-9 2014 at NAVET in Borås, Sweden

NSCF, Nordisk Science center forbund have the pleasure to invite you to an *Explainers conference* and an *Annual conference* 7-9 of October 2014. The explainer's conference starts October 7<sup>th</sup> at 10.00 and ends October 8<sup>th</sup> at 13.00.

The NSCF annual conference starts October 8<sup>th</sup> at 12.00 and ends October 9<sup>th</sup> at 13.00 with lunch for everyone

Everybody who wishes to, are of course welcome to stay from 7<sup>th</sup> to 9<sup>th</sup>

#### Program at a glance:

- Sharing ideas
- Identify collaboration themes, issues
- Art and science
- Maker space, Modern technology, 3 D-printer and control and regulation technology

#### International Congress of Science and Technology Museums

#### ICOM-CIMUSET,

6-11 July, Paris (France)

The CIMUSET congress 2014 will focus on collections, exhibitions and demonstrations and their effectiveness as learning tools in science and technology museums. This conference is organized by Conservatoire National des Arts et Métiers (CNAM) with visits planned to many museums in and near Paris.

#### European Maker Camp,

25 August - 5 October

Like to see Europe differently? Want to learn how to use all sorts of digital fabrication tools? Sign up for the first European Maker Camp and learn how you can make almost anything AND discover 5 different European cultures and cities. 6 weeks / 5 countries / 5 FabLabs / 1 final event. Early bird rates until 15 July



#### Marine Science Educators Association (EMSEA) conference,

1-3 October, Gothenburg (Sweden)

The EMSEA conference 2014 has the ambition to draw formal and informal marine educators as well as marine researchers from all over Europe and beyond to discuss and advance ocean literacy in Europe.

#### ECSITE Directors Forum: Downloading Future

12-14 november 2014,

AHHAA Science Centre, Tartu, Estonia

Everything you want to know – and should know – about the future! Technology and leadership, creativity and innovation, uploading and downloading. Welcome to Estonia – nicknamed “E-stonia” for being a pioneer of digital excellence.

Only for ECSITE Full members.

#### Directors Forum 2014 #downloadingFuture

12-14 November  
Science Centre AHHAA, Estonia, Tartu



Editor: Pilvi Kolk, pilvi.kolk@ahhaa.ee

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