

November, 2014

# NEWSLETTER

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## Dear NSCF Member

I am happy to announce that NSCF is becoming more lively than ever. In this Autumn issue you will find a lot of photos and stories about our magnificent members. NSCF scholars are sharing their memories of scholarship-trips. Maybe you could be the next one to receive the scholarship? Take a look at the last page of the Newsletter for more information!

We were happy to take part in NSCF Explainers's seminar and NSCF Annual Conference in Sweden, in Navet Science Centre. Many of us got inspired about the beautiful artistic city of Boras and its theatrical science centre. Thank you all in Navet for welcoming us!

There are also new things happening in NSCF governing board. I am happy to welcome Mrs Gudrun Bachmann from Iceland to our family of science centres and museums. The same welcome to Mr Pauls Irbins from Latvia! NSCF board meeting will take the first time in history place in Riga 2015 January. This is a great step for us. The NSCF Annual Conference of 2015 will take place in Denmark.

Wishing you white winter,  
Pilvi Kolk

Chairman of NSCF,  
Science Centre AHHA, Estonia



Boras, Sweden

Photo: by Luize-Ingrid Klimova

### NSCF Board 2013-2014:

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### NSCF conference 2014 at Navet Science Centre, Borås, Sweden

By Mia Magnusson

This year Navet was proud to arrange the NSCF conference in Borås at Navet Science Centre. In total 35 persons came to the conference representing Norway, Denmark, Iceland, Finland, Sweden and Estonia. The conference kicked off with a tour, which guided the participants through some of Navet's travelling exhibitions. Our travelling exhibitions include playfulness, storytelling and beautiful scenarios. In crime lab they investigated evidence and Berta, the chemistry dragon, showed her cave and how she makes carbon dioxide. In the same spirit we also have the beautiful travelling exhibition in mathematics, Bagdad (see more at [www.navet.com](http://www.navet.com)).



Photo: Vasso Siameti

Åse Eliasson Bjurström, "Learning by ensemble, for a sustainable development" showed us how to use drama, storytelling and fellowship to experience and learn.



Photo: Mia Magnusson

The themes of the conference were *entrepreneurial education*, *sustainable future* and *art & science*. Entrepreneurial education includes for example playfulness, drama and storytelling.

**Micke Gunnarsson** "The future is always now" encouraged us to be playful and live in the present, think positive and prioritize what is important. He wants to learn the youth that they don't have any future, because the future is NOW.

**Ann-Marie Pendrill** "The playground" showed us how to use playfulness to experience and explore physics through the whole body at playgrounds.

Navet arranged group exercises that develop entrepreneurial competences like cooperation, turn ideas into action and curiosity. Through exercises like for example puzzle, creating new words, construction and art we all connected with our inner child.



Photo: Vasso Siameti



## Sustainable future

All food during the conference was vegetarian. All the coffee, fruit and biscuits were produced organic and Fairtrade and we hope that everybody enjoyed it! *Anna Kjellberg, "Circular economy"* learned us about the concept circular economy and how it is used successfully. We also had many small activities and coffee breaks in our department sustainable future.



*Photo: Nina Svensson*



Photo: Vasso Siameiti

## Art and Science

When you connect art and science you are not only transmitting knowledge, you raise the inner motivation. *Jeanette Schäring* is an artist that cooperates with the scientist *Jonas Bergqvist*. They come from two different worlds but unite in the searching for answers. Jeanette told us about both difficulties and successful results in their partnership.



*Photo: Mia Magnusson*

### NSCF scholarship gives opportunities!

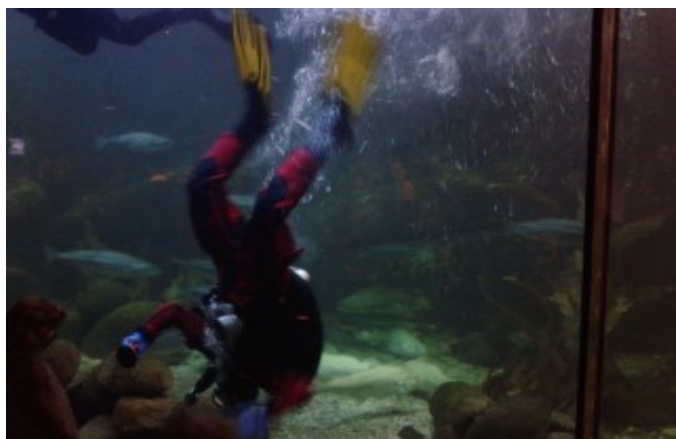
By Jaanika Loomus

Energy Discovery Center

I have realized during my life that everything starts with a small step and seems to happen for a certain reason. I like to think that the only limits I have in my life are those that I have set for myself. By having enough courage I can step out from my comfort zone and discover the unknown, see and meet all the different opportunities life has to offer.



Due to recommendation from Kertu Saks, director of Energy Discovery Centre, I found myself writing a motivation letter to apply for the NSCF scholarship. Since I am ambitious and oriented to accomplishments I really believed that this was the opportunity for me to gain experience and achieve something in my line of work. I was one of the lucky ones who got the scholarship and I am also very thankful for the recommendation from Kertu.



I believed that NSCF scholarship would provide a memorable learning experience in my line of work and would

have an inclusive impact on my personal development in terms of my speciality in the Tallinn University of Technology. Therefore, I chose to travel to Sweden. My first destination was Universeum in Göteborg. It is Scandinavia's largest science centre and has an outstanding design - the systems for energy, water and material flows are constructed according to global environment perspectives. Building is definitely a good home for a science centre, botanical garden and interactive exhibitions. My visit to Universeum was full of new experiences, thought-provoking conversations and pleasant people. Stories about Tucan, who went looking for his love of life, amazing exhibition of dinosaurs with their realistic voices, shark feeding as an attraction and joyful good-willed workers made this visit memorable.

My second destination was Innovatum in Trollhättan. Innovatum is one of northern Europe's strongest development centre and a place for smart people with great ideas. They are focusing on development of new and enhancing already existing school programs and workshops in collaboration with teachers. In my two-day visit I participated in demonstration which focused on electricity, enjoyed the view of Trollhättan in air on a 400 meter long cableway trip and of course I met wonderful people who appreciate science and share the joy of discovery. For me, this was a place to understand how important are little things and there are so many interesting and effective ways to explain science.

My six days long journey in Sweden was interesting and educational working trip as well as fun and nice holiday. It is important to keep the quality of science centres in terms of educational value and the idea that best way of learning is learning from personal experience. I got a lot of useful information about marketing strategies of science centres, educational programs, met wonderful people and collaboration partners. NSCF scholarship was like a warm hand shake and helped me to get acquainted with this interesting, exciting, and Interactive lifestyle, which is full of inspirational learning and science.





## News from members

### Stockholm Mini Maker Faire- That's the Way to Do (or Should I Say "Make"? ) It!

I dare you to guess what the first word that I learned in Swedish was. No, it was not the cheerful "Hej!" or "Hejdå!" or the grateful "Tack!" – it was "vimpel", the Swedish equivalent for "the pennant" and my visit to the Stockholm Mini Maker Faire last week was just as colourful, varied and joyful as the brightly coloured pennants that decked Tekniska Museet's main entrance during the event.

I suspect the organizers, supervised by the never-tiring Nils, Carolina, Calle and Björn, must have had a secret pact with the heavenly Cloud Control Unit as the Sun shone brightly throughout the two days of the Faire, turning giant mirror-fitted satellite pans into clever cookers used for making delicious pancakes and bringing enthusiastic makers, doodlers, tweekers, inventors and creators of so many different walks of life to the museum to share and show their accomplishments to the grateful audience.



One of the first curious bunches of people to catch my eye were the various 3D printing enthusiasts. These mysteriously humming plastic-printing-super machines had conquered the floor and among their creations I found bits and pieces of product prototypes and souvenirs and even the almost life-

sized robot called Robyn but also fun little knick-knacks, such as whistles, bracelets and an imitation chocolate bar. After all, why would you buy chocolate if you could simply 3D print it, right? ;)

Next up on the line (and, it was such a hit, you really had to wait for your turn in the line) was the sleek WAW design bicycle, presented by **Frederik van De Valles**. Being a kind of a nut for bikes, my excitement at



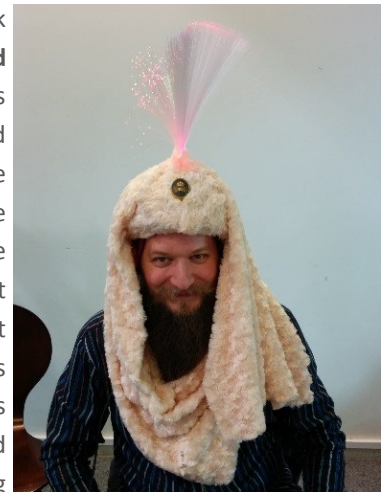
the moment I finally was able to test this beauty was beyond words. Oh, how cool it would have been to take it for a 80 km/h spin on the road!



For those looking for something completely different, **Maria Johansson** had the perfect recipe. Having a taste of her **DIY Combucha**, an organic tea-based bubbly drink

reminded me of the fun one can have with yeast and I made a mental note to take up the business of root beer brewing once I got back home to Estonia.

Spotting a blue box across the room that looked suspiciously similar to the Tardis made my Doctor Who- loving heart almost skip a beat and took me straight to **David Hrynczenko's** curious display of Sumo robots and fiber optic headgear, the most glorious of which he was willing to try on to pose for my camera. Looking at the clever and kind, yet sneaky little twinkle in his eyes, one might only guess that his yet-to-be completed spider robot he was working on at the Faire will be just as entertaining as his previous masterpieces (although, maybe slightly less so for his cats, as he himself claimed).



Yearning to be a maker myself, I next set out to make at least 2 little gadgets on my own. I got to check the first one off the list at the **soldering table** where true gentlemen, also known as the local **radio amateurs**, guided me in the making of a Makebot pin with blinking LEDs for eyes. I sat there, amazed at the total concentration on kids' faces

when they carefully held the soldering iron for the first time in their lives, happily cheering with them for each successfully melted droplet of solder.





My mission for gadget no 2 took me to the artsy crafts corner that **Björn** from the Tekniska Museet itself had set up. My first version of the wobbly artbot failed miserably but version 2.0 was a complete success!

By that point, I had got a taste for creation and decided to look for another way to put my skills to the test. This is how I came across **Evelyn Lebis** and **Saturday Light Fever's** fridge-turned-spray painting machine, which I used for drawing quite probably one of the scariest wannabe Chesire Cats in the world :).

The ideas of reusing and reducing could also be seen elsewhere at the Faire, both in the form of making beautiful new objects from old clothes following designer **Fia Sjöström's "Returinity"** philosophy or crafting a **model bird from recycled Styrofoam** just as the Swedish aviation specialists did.

In addition to everyone and everything already mentioned, the Faire offered heaps of fun and exciting experiences in the form of, let's say, **potato blasters**, robots printing on **eggs or with water colours**, **night vision goggles**, **steam machines**, **pickled vegetables** (oh yes, these can be very interesting as well!), **home-made wooden computers** and much more.

When it all ended, when the two days were over and the scene had packed itself up faster than anyone could say Jack Robinson, the air was filled with a sense of accomplishment. Judging by the smile ratio on the visitors' and the makers' faces, the organizers had done a great job and set a very high standard for the coming years. With a certain sense of sad, yet sweet longing, I left for home, the robot pin still blinking happily on my shirt and the tunes of **Jonny Eriksson's award-winning Popmaskinen** ringing in my ears.

Thank you Stockholm Mini Maker Faire 2014 team, see you next year!

Helin Haga,

Project Manager,

Science Centre AHHA



### Benchmarking fundraising and sponsorships in Sweden and Norway

*By Anna Iso-Ahola, Museum of Technology*

I got the NSCF scholarship for visiting three different museum of technology in order to get better understanding what kind of financing they have, and how these chosen museums have organized the sponsorship work.



I chose these museums for special reasons. Teknisk museum in Stockholm is natural choice being near and I see there could be good possibilities for co-operation or co-projects in future, but also because they have a special exhibition "100 innovations" what I was interested in. In addition to this, Stockholm's museum has a strong and powerful private foundation Stora fonden what I was willing to hear more about. Our museum had not any strong connection to the Teknisk museum in Oslo, so I was very motivated to see their museum and have a contact with them. As I had heard from my colleagues -tanks to the previous NSCF conference in Norway -Jaernmuseet has a bit similar situation as we have, but they have had succeeded to raise amount of sponsorship money. This was reason why I wanted also to see Jaernmuseet people. I had three different museums in three different cities. It took its time to settle the travel schedule. Finally, I succeeded to have all the meetings in three days period. My travel days took place May 26 -29. As I was having three program filled days, I decided not to take the flight back to Helsinki via Oslo on Wednesday evening (and it would have cost quite much) but to take one extra day in Oslo in the end of the journey to make a

report and visit again the Teknisk Museun in Oslo if needed.

I left early Monday morning for Stockholm in order to take a full advantage of the whole day. Unfortunately, my flight was canceled with the result that I missed two of three persons in the Teknisk museum. Luckily, the contact person, Johanna Hedgårdh, was flexible and was able to spend a few hours with me. This meeting was very successful. In addition to clear explanations how she works with the companies, I had the possibility to have a tour in different exhibitions they have, and I heard about the coming science centre projects.

One way of co-operations with partners in Teknisk museum in Stockholm is to give a certain venue or space for companies. Here is one example how to combine history and new technology, and the company gets visibility in the museum.



I got many concrete advices but also affirmations on my own thoughts, not to mention fully new ideas I got during my visit. Due to my retarded landing to Stockholm I missed the director and the person who knows more about the Stora fonden and about donations which are -as I understood -one of significant ways to collect extra money for the Teknisk Museum. However, once you have made a concrete contact with the museum, it is easier to continue the discussion later, and Johanna promised that they will answer to all my later questions by email;).

Monday evening I took the flight to Oslo in order to meet Dag Andreassen already in the morning in Teknisk museum. I spent most enjoyable 3,5 hours with Dag. He was explaining how they usually work, and he clarified more profoundly how they operated with oil exhibition and how they got companies with. In addition to that, we made a tour in the exhibitions, and I had a chance to hear detailed information also about their newest exhibition about technology and society, which was very interesting for me in comparison to our 2017 main exhibition. I wish



## NSCF scholarships

our exhibition team would have seen that!! Teknisk museum is also celebrating its 100's anniversary, and it was interesting to hear about the challenges the museum had when trying to get private money on this. It remains me our struggles.

After having discussed with Dag I spent still some time in the exhibitions on my own. Preliminary I had booked my flight back to Finland on Thursday evening so that if I could not had had time enough on Tuesday, I could have returned to the museum on Thursday. Tuesday evening I flew to Stavanger and I arrived to Sandnes late in the evening. I met Elin Bell first in the morning in the science center Vitenfabrikken so that I could see also that venue and the exhibits, and then we continued by car to Vitengarden at Naerbo. Once again, I had very good conversation about sponsoring, marketing and financing. Elin is in charge of marketing and sponsorship, and I heard interesting points of view about fundraising. At Naerbo I had a chance to meet also museum director as well as chief of economy, and in the afternoon still the project manager who is now working on the next new exhibition. They have a different organization with the county museum status and many museum locations. The sponsored money is mostly for Vitenfabrikken, but sometimes the get "general" money to divide it between several museums in the area.

All the three museums are doing much better financially than we do. In Norway you have oil money, and furthermore -as I learned-the Sandnes area is the most successful and richest area in Norway. The Oslo

museum on its part is a national museum, and they too get advantages of oil richness. Their year budget and the size of personnel are totally different than that of ours. Furthermore, banks for example have own funds, what we in Finland do not have. As to Stockholm, they have this tradition of donations, and they have Stora Fonden what guarantees the basic investments and basic operations.

All these three museums have science centre part in their organisation. Overall, it is quite easy to make a conclusion, that it is much more easier to get sponsors to a science centre than to a museum. That is the fact. However, it doesn't mean that we have a mission impossible.



*Museum director Målfrid Snørteland was kind, and took me for a short visit to coast by car and made a tour showing some locations before leaving me at the airport.*



*Friendly Elin Ravndal Bell, head of marketing, hosted me and helped me to meet other staff in Jaermuseet. Here Elin and head of economy Elisebet Rugland*



### Trip to Norway

*By Rolands Blumbeks*

I decided to use my NSCF scholarship to go to Nordnorsk Vitensenter and Vilvite science centers in Norway. My choice was based on the fact that the Norwegian state has invested a lot of resources in these centers.

In this trip I wanted to study the way programs are made and presented for pupils and other visitors. Furthermore I wanted to learn more about the ways in which each science center determines its own specific field of focus.

I spent two days in **Nordnorsk Vitensenter**, during which I found out how the center was established and what and why it was focusing on. I learned about co-operation with regional schools, as well as field specific marketing and presentation skills. I participated in two programs, during which I made notions of the important factors for children to like the program and find it valuable for their future education. I also learned about the organizing of excursions and maintaining a steady flow of visitors. I observed that the center successfully appeals to all generations and promotes interest in the world that surrounds us and the business environment.

Next I went to **Vilvite** center. I was there for four days and participated in 7 programs for different ages. I was surprised about the capabilities of this center to provide wide range of programs. Each program was very thought-out and stimulating for the growth of pupil development.



I learned about the specifics for presenting a program for kids of young age. It was interesting for me to see the clever ways to demonstrate to the pupils the ways in



which you can measure and calculate things. I also learned about the process of choosing a new exhibitions and frequency of their change, as well as side-exhibitions. I was also interested in the proportions between organized pupil groups and individual visitors and the ways the center attracts its funding.

Together with the staff we discussed the future development support of this particular center and the visions about the future of science centers. Our main conclusion was that such centers have endless possibilities of growth and development. We also discussed the differences in education systems between Latvia and Norway and the influence they have on pupils. I introduced them the science center's in Latvia.

Overall, I'm very grateful that I had the opportunity to learn a lot about the operation of these science centers from within. After this trip I have a lot of new ideas regarding science centers that I'm eager to introduce into Latvian science centers.

Thanks to NSCF for this scholarship!

## News from members

### The Science Circus tour of Iceland

By Elin Ravndal Bell  
Marketing Manager, Jærmuseet

*Science Circus is Jærmuseet's "science centre on wheels". Usually Science Circus travels to schools in the southwest of Norway with shows and experiments, but every October for the last 3 years, we have headed North to the island of volcanoes; Iceland. This year was no exception.*

The purpose of the tour is the same whether we travel in Norway or Iceland; to encourage pupils and teachers to have a greater understanding and interest for science and technology. The culture and the school system in Iceland is very similar to Norway. All of Science Circus school programs are therefore easily adapted into Icelandic schools.

Science Circus have a cooperation with an active member in NSCF, Husdyragardurinn. This year we visited 6 schools and had shows and programs for approx.. 2000 pupils. We also organized an educational workshop for teachers in Reykjavik, and it is rewarding for us to see that when we go back to schools we have visited before, the teachers have taken our interactive methods in to use.



The feedback from teachers and pupils is very positive and we hope to go back again in October 2015 – to encourage to more study of science and technology. Feel free to follow Science Circus on Instagram - @sciencecircus



## News from members

### Mission Possible

By Liisa-Riin Stalde

Tallinn Energy Discovery Centre

On the 17th of October „Mission Possible”, an exhibition focused on bio-economy, was opened in Energy Discovery Centre in Tallinn.

Bio-economy is the sustainable utilization of renewable biological resources for the production of food, feed, bio-based energy and other products to protect our environment and resources. The FP7 project BIOPROM has the aim to give the population an understanding of the importance of bio-economy by the interactive exhibition „Mission Possible”.



"The exhibition has been prepared on the complex theme of bio-economy, but the basic question of the exhibition is simple – what can we all do so that in the year 2050, all the people on Earth are fed, safe and healthy to live?" said Kertu Saks, Director of the Energy Discovery Centre.

The exhibition will therefore strengthen the regional awareness of the bio-economy. Bioprom will pave the way for an interactive debate and discussion on bio-economy.

The BIOPROM exhibition includes interactive exhibits where people from young to old can learn about bio-economy in a simple way. What decisions have long-term positive impact and what negative? The world is too big to see wrong decisions immediately. In the small world at the exhibition each person has the same pole position to act in this little world.

At the opening of the exhibition in Tallinn, famous zoologist and beloved nature man Alexei Turovski discussed with schoolchildren about what insects would be wise to learn to eat in the future and what fish should



we start to grow. The children had also opportunity to learn more about bio-economy in fun workshops.

Special emphasis was placed on educating kids, high school students, university students and also adults – to sum up the general public - to garner their interest in bio-economy through hands-on experiments. The exhibition includes a workshop area where the visitors will be informed about selected topics in bio-economy. It has three main areas of interest: agriculture and fisheries, food and wellbeing, and biotechnology and life science.

The BIOPROM exhibition was already hosted by Explora – Rome/Italy (April 2013 – November 2013)

Satrosphere Science Centre – Aberdeen/UK (November 2013 – May 2014)

Welios – Wels/Austria (June 2014 – November 2014)

“Mission Possible” will be open in Energiekeskus - Tallinn/ Estonia from October 2014 – to February 2015

For more information: [www.bioprom-net.eu](http://www.bioprom-net.eu)



## News from members

### Tartu, the Maker Capital of the Baltics

By Annika Vesselov, Kai Kaljumäe

Photos by Kritina Kravets



Science Centre AHHA

This year's Researchers' Night Festival in Estonia was bigger and better than ever, spreading to every corner of the country and offering over 400 fun science events throughout one week. However, the most exciting part of the festival was definitely the **Tartu Mini Maker Faire, the first one ever held in the Baltic States**.

Although Estonia is well-known worldwide for several inventions and ideas - most notably Skype, Transferwise and the James Bond-worthy Minox Spy Cam, there's never been a real maker community. There are smaller groups of people with similar interests and hobbies, but there haven't been any larger events or associations to

bring them together. Therefore, the most challenging part of organizing the first Mini Maker Faire was actually locating the people! But as soon as the contact was established, they were really eager to participate.



In addition to local makers, inventors and craftsmen, several guests from Latvia, Sweden, Finland and USA also participated in Tartu Mini Maker Faire. On 26 September, more than 150 science and technology enthusiasts gathered in Science Centre AHHA to share their great ideas with over 1000 fans. During 8 hours, visitors of AHHA got to test their strength and skills at 3D-drawing and soldering, build tooth brush robots, extract DNA, and had the brains tricked by the optical illusions and perception tests.

The audience also had a chance to vote for their favorite maker. The winners of our very first Mini Maker Faire were Kolm Elu (Three Lives), Estonian pinball enthusiasts, who build awesome arcade games for all ages. As the euphoria over a great event is slowly starting to fade, we're already making plans for the next one - and hoping to make it a tradition!

<https://www.youtube.com/watch?v=6hAK-B8r3gs&feature=youtu.be>





## News from members

### Math cafe for teens

By Mona Holmø

Nordnorsk vitensenter

Three years after the opening of Nordnorsk vitensenter, it was time to focus on math in our exhibition. Funds from Sparebank1 Nord-Norge-stiftelsen enabled us to make a small math workshop in our Body and Brain exhibition. We collected all the clever math exhibition ideas we have seen at other science centers, made a design of our own and produced the exhibition ourselves. The rest of our exhibitions have been made over the years in collaboration with external expertise on exhibit design and production.

Our goal was to make an environment attractive to teens and adults. The rest of our exhibitions are attractive to younger children, and there are lots of energetic running around. This time we wanted to make a calm oasis, an area to relax and think hard, to sit down and contemplate.



The exhibition is a blend of different math challenges. We have made wall-mounted exhibits like the Pythagoras Proof, Tangram, a Coordinate System and Fraction Tiles. Shelves, boxes and drawers are filled with math puzzles, brain teasers and games. Whenever possible, the math puzzles comes with custom made concrete material, to promote using different learning strategies for solving the questions.

Our visitors can use the math café in a structured way to improve skills. All challenges are labelled with the topic they belong to in the school curriculum, making it easy to focus on special topics.

The project solely made by two of the pedagogues at Nordnorsk vitensenter. All the way from concept ideas, via handicraft and text production till finished math cafe was into the hands of two staff members.





### POP-UP HEUREKA

By Jutta Kujasalo

#### Pop-up Heureka – science learning made accessible in a new way

Inspired by the success of the Science Circus concept and the demand expressed by the public, Heureka has developed a new way to make science learning more accessible to various target and age groups. *Pop-up Heureka* is a science show featuring demonstrations, experiments and interaction, revealed surprisingly from a traveling trunk right in the middle of the audience.

*Pop-up Heureka* was launched in April 2014 at Heureka's 25<sup>th</sup> birthday and it is constructed in a manner which makes it unique even in the science centre field. The traveling trunk contains a built-in stage, audio and video equipment, lights as well as a phenomenal and memorable physics based science show that is presented by Heureka's inspirer. In cooperation with the physics teacher unit at the University of Helsinki, Heureka has created a show based on modern science

teaching methods which are motivating and facilitate learning. Designed with content which addresses all ages, *Pop-up Heureka* promotes lifelong learning, encourages presenter and audience interaction and activates visitors to think about the phenomena presented in the show. A *Pop-up Heureka* show can be followed by hundreds of spectators at a time. There is no seating; the spectators gather around the stage.

#### Pop-up Heureka at events

*Pop-up Heureka* is only 6 months old but it has already travelled in several cities and happenings in Finland and

abroad. In August Pop-up Heureka science show was presented in Tartu at the Estonian science festival. In December Pop-up Heureka travels to Skövde in Sweden. Because of it's easy and light travelling feature, Pop-up Heureka can be taken almost anywhere. As long as along the route to the place of the show there are no stairs or thresholds over 2cm, soft sand or snow and the show place is at least 201cm high and there is a regular electrical outlet the show can be presented. Pop-up Heureka shows are sold to corporate customers, science events, schools and fairs. The price in the Helsinki Metropolitan area is €3,000 per day, including tax, transportation, 3–5 shows, presenter fees and presentation material.

Pop-up Heureka promotion video can be seen at

<http://youtu.be/eo5opCL6x58>

#### Further information:

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## News from members

### Aha, Dinosaurs are taking over Tartu!

By Kai Kaljumäe

Scientists are curious by nature – and so are science centres! Here in AHHA, we're constantly exploring and we're not scared of anything. This time, however, we might have bitten off a bit more than we can chew. While experimenting with our time machine, we accidentally set the clocks a few hundred million years earlier than we intended...

...and now we're in trouble! Starting from 14 November 2014, our hall of temporary exhibitions will be swarming with life-size dinosaurs. If you're feeling brave enough, you're welcome to see these giant prehistoric reptiles for yourself! You can also take part in brand new exciting workshops and make your own dinosaur models or a 3D timeline of the Universe and Earth.

Which dinosaur was the biggest?

Which one of them could have easily won a race at the Olympics? And which ones were herbivores? Come to AHHA and find out!

**„Aha, Dinosaurs!“ will be open until 26 April 2014.**

**Ahhaa, dinosaurused vallutavad Tartu!**

Elusuures mõirgavad dinosaurused  
Alates **14. novembrist** 2014  
Teaduskeskuses AHHA!

Kas dinosaurus võiks olümpia võita?  
Kui suured olid türannosauruse kihvad?  
Millised saurused olid taimetoitlased?  
Kas kõik saurused elasid samal ajal?

**Tule ja uuri järele, kui julged!**  
[www.ahhaa.ee](http://www.ahhaa.ee)

Haridus- ja Teadusministeerium Tartu Ülikool AGA  
Nordea Kalev HARIBO Melco RAKVERE

Teaduskeskus AHHA NATURAL HISTORY MUSEUM

### Umeå science center celebrates Astronomy Night

By Marianne Eik

At Umeå science center we were celebrating The Day and Night of Astronomy on October 18. We had an Open house, free entrance, and the focus was on Mars and the comet Siding Spring that passes near the planet.

More info at: [www.umevatoriet.se](http://www.umevatoriet.se)

Later this autumn there's going to be one evening with Chemistry experiments, mostly for kids!



## Upcoming events

### NSCF Scholarship!

If you found our this year scholarship nominates stories interesting, you may apply for the NSCF Scholarship too!

For applying: please send the motivation letter (1 A4 page) where and why you wish to go among our member centres and an estimated budget. Scholarship is 1000€ for one year. The Board can decide to split it, if it is possible.

Deadline: **10. January 2015**

Send to: [pilvi.kolk@ahhaa.ee](mailto:pilvi.kolk@ahhaa.ee)



Rome, 19-21 November 2014  
**SIS-RRRI** Science, Innovation and Society: achieving  
Responsible Research and Innovation

**open  
science**

### Science, Innovation and Society: achieving Responsible Research and Innovation, 19-21 November, Rome (Italy)

This conference is organized by Consiglio Nazionale delle Ricerche (CNR) in the context of the Italian Presidency of the EU. In the past two EU Framework Programmes more than 300 projects have been funded in 'Science and/in Society' and €91M have been allocated so far in the current Horizon 2020 Work Programme. The conference in Rome aims at international Stock Taking of *Science in Society* projects and activities. There will be conference sessions and two side events (Brokerage event and Art & Innovation Exhibition). More information.

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### Masterclass in Science

#### Communication,

**24-27 November 2014, At-Bristol (UK)**



This Masterclass is an intensive course created to provide professional development in science communication. It has been designed for those with little or no experience in field of science communication and would be suitable for practicing scientists wishing to enhance the public engagement element of their research, science graduates interested in science communication – or those seeking a career change, scientists/ teachers of science seeking continuing professional development and people working in Research Councils with a communication element to their role. Register online

### *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)***