

# NEWSLETTER

The 2<sup>nd</sup> LTT meeting  
Full STEAM ahead  
In Finland

## Friday 7<sup>th</sup> February

On Friday we gathered together in the art classroom of our school. Everyone could sense the nervousness and excitement among the group. We started off with making ourselves name tags, which we were able to decorate however we liked. The purpose of the name tags was that we could easily learn each other's names. After that we were put in smaller groups to play some ice breaking games. It was a fun way to get to know each other.

The teachers also gave us instructions for the projects we were supposed to be doing during the week. Then we went to the gym hall. The Finnish students had a dance practice there for the upcoming dance ball. The guests were introduced to a Finnish upper-secondary school tradition "Vanhojen Tanssit", which is an event where the students perform old ballroom dances.

After lunch the Finnish students gave our guests a tour around the school. The guests were very interested in all the classrooms and equipment we had. When the tour was done, we returned to the art classroom. There Thomas Virta gave us a very interesting lecture about Rokua Geopark. Then we continued with more ice breaking games, which were filled with laugh. It was so much fun that most students wouldn't have wanted to stop. At around 3 o'clock we returned to the host families' homes.

On Friday night me, Anni, and Tereza went to ice skating. We talked about politics and their situation in their country. It was very interesting to hear about the situation. The ice skating went pretty good. I had been ice skating a lot but Tereza was still catching up. In conclusion I had amazing week with her.

Written by Jenni and Anni



3<sup>rd</sup> photo above is photographed by Denis

## Saturday 8<sup>th</sup> February – Rokua Geopark Day

On Saturday we headed to Rokua. We spent a nice day there with different activities and also got to know each other better by working in groups together.

We had six different activities there and the first one was the hut. In the hut we roasted some marshmallows and bread and we ate them with whipped cream.

Second activity was to continue to make the video project. Groups filmed some material to the video project. Some of the groups also had an opportunity to film with drone.

Third activity was snowshoe walking. Visitors had a lot of fun as well as we Finns did.

Fourth activity was slide and water challenge. They were very funny.

Fifth activity was snow sculpture. We walked in line on the ice and we did one big snowman.

Guests liked snow a lot and we had fun. Sixth activity was friendship ribbon. Two people were tied up each other by ribbon and they had to try to get rid of each other by working together.

Written by Sanni and Leo



## Sunday 9<sup>th</sup> February – Kemi and Haparanda in Sweden

Early on Sunday morning we left from Utajärvi to Kemi and Haparanda. First we picked up fellow students from Muhos and one of our teachers from Oulu. Journey went fast except from the fact that at the back of the bus it was freezing cold. We stuck our mittens to the ventilation holes to prevent freezing.

It was a relieving feeling to reach Kemi. It felt warmer outside than in the bus even tho the weather was very windy. Our guests enjoyed visiting Kemi SnowCastle and they were amazed how neatly it was built.

The theme of the SnowCastle was “Windows to the future”. In there we enjoyed some hot berry juice which was too exotic for our spanish guests. We also visited in ice castle SnowExperience365. There we had opportunity to try ice slide. It was a success.

From Kemi we headed to Haparanda, Sweden where we ate meatballs in Ikea. The food was good. Next we went to Candy world to buy some candy. Our guests were astonished by the amount of pick ‘n’ mix sweets and sodas. We bought and tasted different soda flavours. Some of them were liked and some disliked.

We also visited in Rajalla shopping centre where most of the stores were closed. Fortunately our spanish guests were enthusiasted to learn finnish so we taught them some easy words like thank you, bye, hello, my name is etc and everyone had a good time.

Home journey to Muhos and Utajärvi went so fast as we were chatting and laughing with our new friends. By the end of the day we all were really tired so catching sleep wasn't too hard.

Written by Petra and Erik



# Monday 10<sup>th</sup> February

Monday was our last full day together. We spent the day at our school. The program was to edit a video of our days in Finland. Videos were edited in their own groups. Editing the videos was a nice thing because the whole team was working together.

We also had to make posters. We took pictures with a thermal camera. Posters were edited with a photo editing program because our topic was digital art.

At the end of the school day we introduced our videos and posters to all. After school, we went for pizza. We took pizzas with us and went back to school to enjoy them together.

Later we went to our community center for youngsters, which is located just by the school. The time flew that night. We enjoyed the company of each other, talked,

listened to music and played different games. It was fun to notice that some card games are similar between different countries!

The time really flew. Around nine o'clock it was time to say farewell. It was the last time we were able to see each other's because our quests left home with different timetables. We did share hugs and there was some tears too. Youth all over the Europe are quite similar to us!

Written by Milla and Kaisa



## THERMAL CAMERA

5.7 °C 28.0 °C  
FLIR -2.0

Thermal imaging is used in all sorts of different scenarios—utility and energy companies use it to see where a house might be losing heat through door and window cracks. Police helicopters use it to locate suspects at night.

15.6 °C 27.5 °C  
FLIR -4.4

25.0 °C 27.1 °C  
FLIR -2.6

A thermal imaging camera (colloquially known as a TIC) is a type of the thermographic camera used in police chases. By rendering infrared radiation as visible light, such cameras allow firefighters to see areas of heat through smoke, darkness, or heat-permeable barriers.

Weather stations use it to track storms and hurricanes. It's used in the medical field to diagnose different disorders and diseases. And some home security cameras, like the one on the Ring Doorbell, can use it too.

## Tuesday 11<sup>th</sup> February

The last day of our LTT meeting was spent at the University of Oulu, where we had two workshops. Only the guests were involved in Oulu, our own students started their exam week.

Our focus here in Finland was in digital art and that's why we had a workshop at FabLab Oulu. It is a small digital manufacturing working area, fabrication laboratory where you can design and made your own product with Inkscape Trace Bitmap software and cut it with the laser cutter.

Every one designed their own product, e.g. keyrings, necklaces.

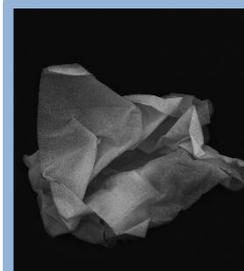
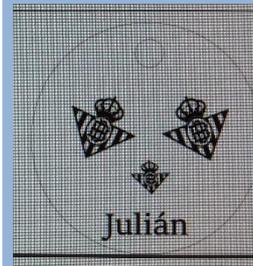
The workshop was lead by Antti Mäntyniemi, Doctor of Science (Technology) University Lecturer, Fab Lab Manage.

Another workshop was at the LUMA center of University of Oulu. The main focus of our Erasmus + project is science, technology and mathematics, which is why the LUMA Center was an excellent choice for the workshop.

The aim of the LUMA Centre Finland is to inspire and motivate children and youth into mathematics, science and technology through the latest methods and activities of science and technology education. The aim is also to support the life-long learning of teachers working on levels of education from early childhood to universities, and strengthen the development of research-based teaching.

The workshop was lead by Susanna Hasiwar, Pedagogical Specialist, Solution Designer (LUMA2020 project), Academic Affairs, Support for Teaching Oulu.

Before our guests left for the airport we went to see a photo and art exhibition in Northern Photographic center Valve in Oulu.



We hope our guests got nice memories and new friends from their visit to Finland!