

EUROPEAN SPACE CAMP

ANNUAL REPORT

2015



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OVERVIEW

European Space Camp (ESC) could have been a disappointment this year. Due to an unpredictable minor error with the igniter, we had to take necessary safety precautions and postpone the launch, which in reality meant that participants at ESC for the first time did not experience the launch itself. Rocket science is difficult, and postponing launches and misfires is part of the game.

This unfortunate turn of events truly put the organisers to the test, but we managed to turn it into a valuable learning experience. Participants thoroughly enjoyed their experience, and in the evaluation Team Space Camp even got an all-time best feedback. We know that camp has been successful when participants tell us that they have had the best week of their lives, and hopefully they've also been inspired to pursue a career in science and technology.

With more applications than ever before, continued increase in traffic on websites and social media and several new interesting inquires we are glad to see that ESC continues to grow both in Norway and internationally. For ESC 2015 we signed a new much needed national scholarship agreement with the Norwegian Industrial Forum for Space Activities (NIFRO), and for ESC 2016 we are looking at a new international scholarship agreement with the Royal Society of New Zealand.

This summer ESC was featured on the educational program Learning World, which is broadcasted by Euronews to 150 countries in 13 different languages. Since ESC was highlighted on said program, we were invited to the World Innovation Summit for Education in Doha, Qatar – for our “outstanding contribution to education.”

Although the camp now being well established, and recognised for our success in encouraging young students to pursue science, technology and engineering subjects at university – the team is always looking at how to improve the participants experience at ESC. With this in mind, 2016 will also see us launch a new website. We hope that this will benefit participants of ESC in years to come, and in a better way highlight the invaluable support that we receive.

It takes a huge amount of effort from a lot of people, both volunteers and professionals, to ensure the successful running of ESC. We are very fortunate to have the Norwegian Centre for Space-related Education (NAROM) as a partner - they have the necessary expertise to ensure that the academic level of ESC remains incredibly high, and their experience in organising camps has proved invaluable. We are also extremely grateful to our high-profile sponsors and scholarship organisations, which have all contributed in making ESC 2015 the wonderful success that it has been.

Christoffer V. Nesse

CHRISTOFFER V. NESSE
Head of Team Space Camp

ORGANISERS

European Space Camp was first organised in 1996. It started out as a Nordic camp, but quickly evolved into an international event, with participants having represented 32 countries and 6 continents. The camp's primary purpose has always been to promote science, both as a field of study and a line of work. To achieve this we focus on three things: theory, practice and social activities. Many of our previous participants go on to study science, engineering and medicine. European Space Camp is organised by the organisation European Space Camp and the Norwegian Centre for Space-related Education in co-operation with Andøya Space Center and the Norwegian Space Centre.

European Space Camp

European Space Camp, formerly known as Forbundet Unge Forskere (Norwegian Association of Young Scientists), is the organisation responsible for the overall planning of the camp. European Space Camp is a non-profit organisation that works to promote interest in science among young people.



EUROPEAN
SPACE CAMP



NAROM



ANDØYA SPACE CENTER

National Centre for Space-related Education (NAROM)

NAROM is a subsidiary of Andøya Space Center. Its main purpose is to increase national recruitment to space-related subjects. Its role is becoming increasingly relevant in Norway, where the space industry is steadily growing and in need of fresh talent. NAROM initiates, develops and organises several educational courses and events for youths, students and teachers. Its main responsibility in organising European Space Camp is to handle the scientific and academic part of the camp.

Andøya Space Center (ASC)

Andøya Space Center is located at Andøya in northern Norway, and is the northernmost permanent rocket range in the world with decades of experience in launching sounding rockets for atmospheric research. ASC supports sounding rockets and balloon operations both at Andøya and Svalbard. The space center also has advanced facilities for ground based scientific experiments using LIDARs and radars.



TEAM SPACE CAMP

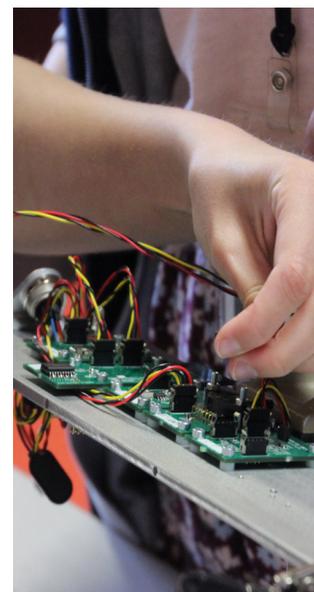
Team Space Camp in cooperation with NAROM is responsible for the overall planning of the camp and consists exclusively of past participants of ESC. By selecting previous participants we ensure steady recruitment as well as creating a team of motivated people who understand how the camp functions and how it can be further developed and improved. The entire team works together on a voluntary basis to organise each year's camp.

The team's main responsibilities include: sourcing sponsors, managing the camp's finances, selecting high calibre participants, organising exciting social activities during the camp, maintaining our website, managing public relations, recruiting new team members and, of course, ensuring that each camp

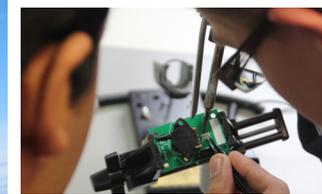
runs smoothly and is an enjoyable experience for every participant.

The members of Team Space Camp are all students of science and technology and work on European Space Camp in their spare time throughout the year. The Team gathers twice a year for workshops over a couple of days, where they prepare for the upcoming camp and share inspiration and creativity to make every camp as successful as possible.

Team Space Camp 2015 consisted of Christoffer Vikebø Nesse (head), Didrik Sten Ingebrigtsen, Ingrid Marie Kjelseth, Eoghan Gilleran and Rannveig Marie Færgestad. The team is delighted to welcome Nina Marie Thomsen and Astrid Prestegård as our new trainees for Team Space Camp 2016.



THE SKY IS NOT THE LIMIT,
IT'S WHERE THE FUN BEGINS!



FINANCING

FINANCING (in NOK)	Financial Support	Other ⁽¹⁾	Total Support
Andøy municipality	5 000	0	5 000
Andøya Space Center (ASC)	25 000	0	25 000
ASC Rocket Campaign Reduced Fee	24 287	0	24 287
Nammo Raufoss AS	15 000	0	15 000
Kongsberg Space and Surveillance Division	50 000	0	50 000
Norwegian Space Centre	90 000	0	90 000
Scholarship fees	192 000	0	192 000
EMC Satcom Technologies	10 000	0	10 000
NAROM	0	250 000	250 000
Team ESC	0	525 000 ⁽²⁾	525 000
Telenor Satellite Broadcasting	15 000	0	15 000
The Arctic University of Norway (UiT)	10 000	0	10 000
Fugro Sattelite Positioning AS	15 000	0	15 000
University of Svalbard	10 000	0	10 000
Tekna	10 000	0	10 000
NITO	10 000	0	10 000
Institute of Physics, University of Oslo	10 000	0	10 000
Norwegian Defence Research Establishment (FFI)	15 000	0	15 000
ESC Contingency Fund	11833	0	11833
Bank Interests	2170	0	2170
SUM FINANCING	520 290	775 000	1 295 290

⁽¹⁾ By other support, we mean support that we receive in the form of free services or services at a reduced fee.

⁽²⁾ Team European Space Camp contributed with approximately 3500 hours valued at NOK 150 per hour.

EXPENSES

EXPENCES (in NOK)	Budget 2015	Accounting 2015
Course materials	3 700	3 700
Balloon operation	5 338	5 338
Rocket campaign	125 950	125 950
Lodging and all meals for students, lecturers and Team	203 840	194 460
Travel expenses, lecturers and group leaders	14 000	19 741
Transportation at Andøya (students and Team)	10 000	3 068
External lectures	12 000	12 500
Scientific assistance	13 124	13 372
Other expenses NAROM ⁽³⁾	34 641	34 312
Sea Safari	12 000	20 250
ESC jackets	17 000	22 846
Equipment	1 600	1 055
Team expenses	6 200	6 904
Travel expenses, Team	42 000	47 355
Office expenses ⁽⁴⁾	11 200	7 286
Postage	3 000	2 153
Other expenses Team (including unforeseen expenses)	1 500	0
SUM	517 093	520 290

⁽³⁾ Unforeseen expenses, events and insurance

⁽⁴⁾ Stationary, bank fees and Annual Reports

BUDGET

EXPENCES	Budget 2016 (in NOK)
Course materials	3 700
Balloon operation	5 445
Rocket campaign	127 309
Lodging and all meals for students, lecturers and Team	199 780
Travel expenses, lecturers and group leaders	14 000
Transportation at Andøya (students and Team)	10 000
External lectures	15 000
Scientific assistance	13 332
Other expenses NAROM ⁽⁵⁾	32 537
Sea Safari	15 000
ESC jackets	17 000
Equipment	1 500
Team expenses	7 200
Travel expenses, Team	42 000
Office expenses ⁽⁶⁾	8 000
Postage	2 200
Other expenses Team (including unforeseen expenses)	1 500
SUM	515 503

⁽⁵⁾ Unforeseen expenses, events and insurance

⁽⁶⁾ Stationary, bank fees and Annual Reports

European Space Camp (ESC) is a not-for-profit organization, with the aim of organizing and running European Space Camp each year within budget. Any leftover fund is collected in a contingency fund and reserved for future camps in case of a shortfall in funding or unexpected extra costs.

European Space Camp 2015 was not conducted completely as per the budget, which caused a deficit of NOK 11833. The activities leading to the increased costs will be reconsidered for the following camps.

Although this year we went into deficit financially, this is an excellent example of the importance of always looking for new sponsors and scholarship organisations interested in collaborating with us. It also demonstrates the importance of all of the sponsors and scholarship agreements we currently have.

We thank Telenor Satellite Broadcasting whom this year has chosen to fund us once again. A new addition to our sponsors this year was NITO who was invaluable in helping us with continually growing costs. We are also fortunate enough to have enduring support from our two biggest sponsors, the Kongsberg Space and Surveillance Division and the Norwegian Space Centre.

With the cost of European Space Camp increasing year on year, controlling costs and protecting sponsorship revenues is of prime importance for Team Space Camp.

Looking forward to ESC 2016, we are seeking to further diversify sponsorship into Europe and internationally. We are extremely grateful to our current sponsors, scholarship organisations and collaborating partners. Their continual support of the work and vision of European Space Camp has been crucial to the ongoing success and burgeoning reputation of ESC.

EVALUATION

European Space Camp 2015 was a great success, as shown by the strong positive feedback in the evaluation completed by the participants at the end of the camp. The positive feedback extended to every part of the camp, including the quality and content of lectures, the variety of activities and the stay at Andøya Space Centre, including the accommodation, food and location.

Criteria	Average Percentage Rated 'Good' & 'Excellent'
Professional Content	89
Pedagogical Presentation	85
Relevance to the Course	92

Lectures and lecturers were evaluated on the criteria of professional content, pedagogical presentation and relevance to the course, with the average percentage of 'good' and 'excellent' ratings across all lectures above 85% for every criterion.

Some comments made by participants were:

"So much fun to get the opportunity to learn from the best. The lecturer's enthusiasm about their work was also truly inspirational."

"I like the fact that you brought a person from the commercial area as well. Yay for variation!"

"I loved this lecture for various reasons. The information was explained in great detail, which made the content very easy to understand."

"Fascinating lectures, presented with great enthusiasm."

"The global energy situation lecture was truly eye-opening. Two brilliant lectures!!"

"Funny, engaging, and above all enthusiastic."

Activities	Average Percentage Rated 'Good' & 'Excellent'
Opening Ceremony	87
ALOMAR Tour	91
Sea Safari	100
GPS Quest	91
Engineering Challenges	99
Social Activities	89

Participants continue to enjoy the informative, social and educational activities organised for them as demonstrated by their ratings and comments;

"Climbing up the 380 m mountain was tough but watching the stunning views of Andøya from the top of the mountain really made the hiking worth it." [ALOMAR hike and tour]
"Cold, but I felt more alive than ever while swimming in the arctic ocean" [Swimming]
"Really fun, and an opportunity to understand basic principles of rocket physics in practice" [Paper Rocket Construction]
"Something to remember for life!" [Sea Safari]
"It probably was the most amazing experience we ever had since none of had seen a whale before." [Sea Safari]

Category	Average Percentage Rated 'Good' & 'Excellent'
Location of camp	100
Accommodation	94
Team	100
General	100

Participants' assessment of the camp over all strongly endorsed ESC, again displayed through their ratings and comments;

"It's such an amazing place with all those labs, antennas, rocket launchers - we could really feel the atmosphere and we were living in a place where rocket science was not something distant and strange - it was the most usual thing on Earth. Really inspiring." [Location of ESC at ASC]

"The team made the camp excellent by being funny and approachable. Played a major part in making the camp as awesome as it was." [Team Space Camp]

"In general the camp is great. You get to meet people who have the same interest as you and do a lot of activities. Also the games and activities allowed everyone to feel like they had found a friend. The friendships here grew very quickly and it made the stay even more enjoyable."

"I think the camp is an amazing opportunity for students all over the world with a same range of interests to gather together and nourish their knowledge on Space Technology and rocket science."

"Was a good combination of theory and activities making the learning both fun and interesting. Had a very diverse group of participant so there was always something interesting going on."

As shown by the evaluation, the overall feedback from the participants was extremely positive. The comments and data suggest that despite a small minority of participants having criticism of isolated aspects of the camp, practically all participants rated the camp "excellent" overall. Team Space Camp will be analysing the results from the evaluation to identify areas of improvement, making European Space Camp 2016 and beyond even greater experiences based on the success of previous camps.

SCHOLARSHIPS



European Space Agency



The Research Council of Norway



Polish Children's Fund



Gymnasium Carolinum

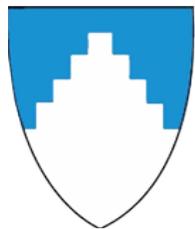


Norwegian Industrial Forum for Space Activities

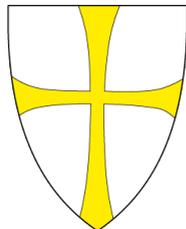


SCHWEIZER JUGEND FORSCHT
LA SCIENCE APPELLE LES JEUNES
SCIENZA E GIOVENTU
SCIENZA E GIUVNETETGNA

Schweizer Jugend Forscht



Akershus County



Nord-Trøndelag County



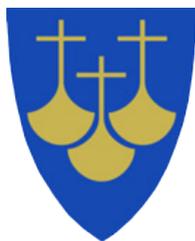
Hordaland County



Nordland County



Troms County



Møre og Romsdal County



Rogaland County



Sør-Trøndelag County

SPONSORS



KONGSBERG



UiO : University of Oslo



UNIS



Andøy Municipality

MEMOIRS FROM A PARTICIPANT

Astrid Prestegård | Participant 2015

One week. 23 new friends from all over the world. Some of Europe's best lecturers and scientists. Fun social activities. Our own rocket campaign. And all this in the scenery of some of Norway's most beautiful nature. European Spacecamp 2015; I wouldn't for the world be without this adventure.

I arrived at Andøya late Thursday evening, not really sure what to expect, both really excited and nervous for what was to come. I met the first other participants at the airport, and it didn't take long before we all got to know each other and became a big happy gang. The morning after started with what was to become a daily ritual; waking up early for morning activities, followed up by a good Norwegian bread breakfast after. One can say that the ritual perhaps didn't end up being every participants favourite, but at least it made us ready to take on whatever challenge the following day held for us. On the first day, we had the formal opening ceremony with speeches, a guided tour of the Space Center, an introduction to NAROMs work, and the first introduction to real rocket science through the lectures by Jan Erik Rønningen.

Later we climbed one of the beautiful surrounding mountains to visit the ALOMAR LIDAR observatory.

During the following days we split into five different groups for the rocket campaign. I ended up choosing the "Rocket System Design" group with awesome Sophie and Alexander as Team leaders. Our job was to understand the principle behind the rocket engine and do the pre-flight calculations. We also tested out our understanding of the theory by designing our own model rockets in a model rocket competition against one of the other groups. I am proud to say that mine and Sondre's design of the "eggernaut" rocket was successful, and that our egg survived the rocket launch.

The following days were packed with thrilling lectures from some of Europe's best lecturers and scientists. They talked about everything from Northern Lights and human future on mars, to satellites and particle physics at CERN. It was a unique and motivating experience to have this opportunity to learn and interact with some of the best and most successful scientists in their fields.





In addition to exciting lectures and working on our rocket campaign, there was a lot of fun social activities. Just to mention some: We went on a whale safari and saw over 100 pilot whales, we took a swim in the Arctic Ocean under the midnight sun, and we also got to go on a virtual trip to space in Spaceship Aurora. In addition to this, we had an evening gathering every night, where a new group challenge was presented to us. This could be anything from engineering challenges to making a dance to a quiz with really tricky questions.

After six days, our rocket, "Souperior", was ready for a superior launch. We were all really exited to launch the

rocket that we had worked so hard on this week. First, each group gave pre-launch presentations on their work and preparations, and we were given a run through the standard launch operations. After, those who had positions during launch took their posts, and the others assembled at the observation site. I was lucky enough to be Pad Supervisor during the launch, which entailed overseeing the rocket's transportation to the launch pad, installation, and finally pushing the big red button to launch. The last task done in a bunker behind a thick concrete wall. After the first countdown, nothing happened. So we tried one more time, and another one, but the rocket remained on earth. That meant that for the first time in

European Space Camp history there was no launch. We were told that it was no one's fault, and that our work was as good as it could be. The problem was in the motor with the ignition. It was of course very disappointing news. We had worked hard on the rocket and looked forward to the launch of our own rocket. Nevertheless, I am proud of how we as a group handled it. We really made the best of it and it did not take long before everyone was in good mood and laughed about it. There had also been launched a similar rocket a few weeks ago that had data we could use for our analysis.

Unfortunately, everything good has to end. After 8 days full of exciting program, the ESC farwell party, including the

ESC show, rounded off the week at European Space Camp. The days at Andøya Space Center truly was a once in a lifetime experience. I feel so lucky to have gotten one week in this unique "Space Camp atmosphere", where enthusiasm and the eagerness to learn and explore is so strong. It has been packed with interesting conversation, and of course a lot of stupid and nerdy jokes. My understanding and interest in space-related science has broadened, and it has been a motivational boost for my further studies to see some of the cool applications the science you learn at school has. For now, all that remains is to thank all the organisers and sponsors, for what has been a truly inspiring and unforgettable week.

PARTICIPANTS



European Space Camp 2015 gathered 23 participants with common interests in science, space and technology from 8 countries around the world: Germany, Poland, Norway, Bangladesh, Spain, United Kingdom, Switzerland and France



Alejandra Hernandez de Lara
Spain



Kristian Steen
Norway



Ragnhild Kvisle Abildsnes
Norway



Michal Lipka
Poland



Christopher Feidal
Norway



Astrid Prestegård
Norway



Iain Sword
United Kingdom



Håvard Vespstad
Norway



Sondre Alexander Høyland
Norway



Syed Rafi Tanzim
Bangladesh



Nina Marie Thomsen
Norway



Julian Erslund Vevik
Norway



Amalie Wee Tørle
Norway



Pascal Keller
Switzerland



Martine Strand
Norway



Kristine Klock Fleten
Norway



Marion L. C. Burnichon
France



Aleksander Knutsen
Norway



Nicolas Gampierakis
United Kingdom



Zofia Kaczmarek
Poland



Fride Nordstrand Nilsen
Norway



Claudia Hillenhagen
Germany



Phil Beaucamp
Germany

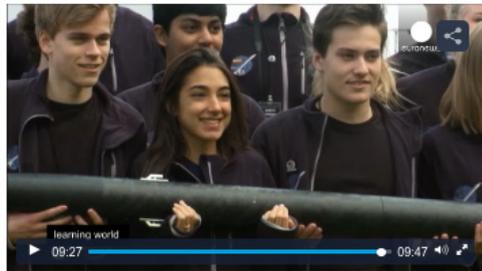
PRESS CLIPPINGS



SPECIAL REPORTS | learning world

Summer holidays: making the most of the big break

10/07/15 17:00 CET | updated at 10/07 - 18:30



BLOGG: | Opprett bloggbruger | Logg inn

Eidsvoll Ullensaker BLAD

NYHETER SPORT KULTUR BILDER EUB TV DEBATT LESERNES EUB Grunnslovsvegen 10 BI



TIL HIMMELS. Torsdag reiser Martine Strand til Andøya og Norsk Romsdal for å delta på European Space Camp.

Skal skyte opp romraket

Facebook Twitter Google+ Kommentarer Skriv ut

Av Kristian Westgård
kristian@eub.no | 9088 87 104
Publisert: 24.06.15 08:00

EIDSVOLL. Martine Strand (20) er i den syvende himmel etter å ha blitt tatt opp som deltaker på European Space Camp.

Eidsvoll Ullensaker Blad (24.6.15): <http://www.eub.no/nyheter/skal-skyte-opp-romraket>

European Space Camp 2015 was widely covered in the Norwegian media, with many participants eagerly sharing their experiences with local newspapers. The camp was also covered by NRK Møre og Romsdal: <https://radio.nrk.no/serie/distriktsprogram-moere-og-romsdal/DKMR02012615/26-06-2015#t=18m18s>

This summer European Space Camp was also featured on the educational program Learning World, which was broadcasted by Euronews several times a week to 150 countries in 13 different languages. The feature can be found here: <http://www.euronews.com/2015/07/10/summer-holidays-making-the-most-of-the-big-break/>



LÆBERIKK SOMMERFERIE: Ragnhild Kvisle Abildsnes på spacecamp på Andøya. Foto: European Space Camp

Realfag-Ragnhilds rakettforsker-reise

Ragnhild Kvisle Abildsnes (17) var en av 24 heldige ungdommer fra hele verden som fikk komme til Andøya.

Innherred (27.15): <http://www.innherred.no/nyheter/article11271105.ece>



NORDBALANSE: Christopher Feidal (18) er fornøyd med kjenneblåsen på Andøya Space Camp. - Det var fantastisk å få med seg dette og jentene. Foto: Eline Tysden

Velger astrofysikk etter sommercamp

Christopher Feidal (18) var deltaker på årets European Space Camp. Nå vil han satse på rakettforskning.

iTromsø (7.7.15): <http://www.itromso.no/nyheter/article11288936.ece>

Lunes, 6 de Julio de 2015 GALERIAS GRÁFICAS CANALES BLOGS

DIARIO DE CADIZ PROVINCIA

PORTADA CÁDIZ DEPORTES ANDALUCÍA ACTUALIDAD TECNO CULTURA TV SALUD OPINIÓN CÁDIZ EL PUERTO SAN FERNANDO CHICLANA PROVINCIA EL BALCÓN

Diario de Cádiz. Noticias de Cádiz y su Provincia Cádiz Provincia Siguiendo los pasos de Stephen Hawking

Siguiendo los pasos de Stephen Hawking

El Gobierno noruego y la Agencia Espacial Europea becan a la joven portuense Alejandra Hernández para estudiar Física

ADRIÁN V. B. EL PUERTO | ACTUALIZADO 31.05.2015 - 10:42

0 comentarios 16 votos 2 COMPARTIR

Alejandra Hernández es una joven portuense de 17 años que se encuentra actualmente cursando el primer curso de Bachillerato de Ciencias-Tecnológico en el colegio bilingüe Grazaletta. Desde pequeña ha tenido muchas pasiones, aunque a la que se dedica en cuerpo y alma es la Física. De esta manera se podrían justificar sus innumerables 10 en todas esas asignaturas que tienen relación directa con la materia.



Alejandra Hernández posa para "Diario de Cádiz" a la espera de poner rumbo a Oslo a finales de mes.

Diario de Cadiz (31.5.15): <http://www.diariodecadiz.es/article/provincia/2042011/siguiendo/los/pasos/stephen/hawking.html>



Åpner Space Camp

Av TONE MARIT SERENSEN 23. ju. 2015, kl. 14:13

ANDØY: Stortingsrepresentant Kari Guimundsen besøker Andøya Space Center for å forvare åpningen av European Space Camp 2015 fredag 25. juni.

DEL: Startliggende reiser til Kari Guimundsen besøker Andøya Space Center for å forvare åpningen av European Space Camp 2015 på fredag 25. juni. Det var Marit i serensen som tok bildet.

Fra åtte nasjoner Europacamp 2015 er en av de største internasjonale reiseopplæringer for ungdom i verden 17-20 år, og som i sommer arrangeres fra «de 8 nasjoner».



Space Camp var her utgangspunkt for åtte nasjoner, og åpner fredag. (Foto: Kari Guimundsen)

Bladet Vesterålen (23.6.15): <http://www.blv.no/andoy/nyheter/åpner-space-camp/s/5-9-42120>



NRK Møre og Romsdal Hjemmen Radio Tips oss! Søk i RSS

Denne dama er rakettforskar i ferien

Sommeren er full av det mange kjenner. Men akkurat denne våren søl seg litt hit resten.



Denne sommeren er full av det mange kjenner. Men akkurat denne våren søl seg litt hit resten. (Foto: NRK Møre og Romsdal)

NRK Møre og Romsdal (7.7.15): <http://www.nrk.no/mr/denne-dama-er-rakettforskar-i-ferien-1.12429660>



ANDØY NYHETER

- Det blir ei raketttuke!

Av IDAR DYBSEN 26. juni 2015, kl. 11:19

ANDØY: Tyske Phil (17) og Claude (17) har landet i Andøy for å være med på European Space Camp. Spar om de gleder seg!



... Det er lyngstinget som er temaet på European Space Camp, sier Claude i 11 årsløp og Phil i 11 årsløp.

Bladet Vesterålen (26.6.15): <http://www.blv.no/andoy/nyheter/det-blir-ei-raketttuke/s/5-9-43182>



Julian Erland Vevik (19) fikk så velge hvem etter et velg på Andøya Space Center. Det ble han og er i en undersøkningsprogram og fikk jobbe som rakettforskar i dag med åpningsdag på hele Europa. Foto: Andøya Space Center

Sommarjobb: Rakettforskar

Torsdag kom Julian Erland Vevik tilbake til Bømlo etter et velg som rakettforskar på Andøya Space Center.

Bømlo-nytt (8.7.15): <http://www.bomlo-nytt.no/sommarjobb-rakettforskar>

