

IFT-POSTEN

NYTT FRA INSTITUTT FOR FYSIKK
OG TEKNOLOGI
UNIVERSITETET I BERGEN



DEPARTMENT HEAD'S INTRO

WEEK 38, 2014



The fall is still not here in full, and summer-like temperatures and evenings full of sun make us not think too much about dark things. For some, however, this is rather different, and this week we had the evaluation by Heidi Sandaker's project "Dark Matter Analysis, Research & Application - DAMARA". The evaluation is still not made public, but it has leaked out that the evaluation committee has a very positive opinion about conducting of the project. We would like to congratulate Heidi Sandaker on this positive evaluation, and we also thank the Bergen Research Foundation for supporting the project.

One of this fall's most exciting events is to take place next Friday; the party for the new Bachelor students. Older Bachelor and Master students are also invited. It would also be nice if a number of our employees could show up at the party, adding a bit of academic content to the actual festivities. **All research groups are encouraged to show up with at least one representative.** It would be nice that those who thought of joining the party contact Anders. The party starts at 16.00, and we can promise you a nice meal and an interesting programme.

Have a great weekend,

Øyvind

ELECTION OF SAFETY REPRESENTATIVES AND DEPUTY SAFETY OFFICER

It is now time for electing the safety representatives for the period of 2015 - 2016. The current safety representative for our area (Safety Area 2.12 Department of Physics and Technology) is Børge Hamre, with Rachid Maad as deputy safety officer. Their term will be out by New Year.

All employees at the department have the right to propose candidates, suggestions should be sent to the administration head on a hereby provided form latest by October 21st.

Read also the letter by the UoB staff and organization department; [Election of safety representatives, main safety representative and university's main safety representative for the period 2015-2016.](#)



PHD - DISPUTATION

[Simen Eldevik](#) holds a PhD disputation by the following title:

[Measurement of non-linear acoustoelastic effect in steel using acoustic resonance](#)

Thursday, September 25th, at 13.15, in Auditorium 2, Realfagbygget.

His supervisors were Per Lunde, IFT, and Åge Andreas Falsnes Olsen – DNV GL



DISPUTATION BEFORE CHRISTMAS?

We would like to remind you of the last deadline for submitting your PhD thesis to the department, if you intend to have your disputation during this semester, is Monday, October 13th. Your supervisor should have a list of suggested opponents at the moment of submitting the thesis. The last possible disputation date before Christmas holidays is Thursday, December 18th.



NEWS FROM THE CANTEEN ON THE 2ND FLOOR

The canteen now also takes cards, so now you have no excuses in case you have forgotten to draw out cash.

The payment terminal accepts both VISA and Mastercard.

INVITATION TO AN OPEN MEETING

The Norwegian Academy of Technological Sciences (NTVA) and Tekna invite to an open meeting in Bergen Tuesday, September 23rd, 2014, at 19:00

Location: Nansensenteret at Marineholmen, Thormøhlensgt. 47

**If you have already signed up for this meeting,
Please ignore this announcement.**

Topic:

Battery driven ship – a new green business case?

Lecture by:

Narve Mjøs, Director Battery Services & Projects, DNV GL

More information about this lecture is [available at our website](#).

This meeting is open for all who might be interested. Registration is required only for those who would like to join for the simple meal of fish soup – sponsored by Tekna – and a social gathering after the lecture.

You can register for the meal in two ways:

1. E-mail: ntvemail@ntva.ntnu.no 2. Phone: 73 59 54 63.

Registration for the meal should be received latest by 15:00 on Thursday, September 18th.

Trondheim, September 16th.,2014

Best regards

Hein Johnson

General secretary NTVA



NTVA

Norges Tekniske Vitenskapsakademi

www.ntva.no



Tekna

THE PHD-STUDENT:

Name: [Beate Krøvel Humberstet](#)

Supervisor: [Jesper Gjerløv](#), professor II, IFT/BCSS

She took a year studies in arts and crafts, has worked at h-bar during her studies, and would love to travel back to the USA sometime in the future. But first she needs to complete her PhD.

Beate Humberstet is doing a PhD in space physics at Birkeland Center for Space Science (BCSS), and is part of the Q2: Dynamic Ionosphere research group. When you do research in space physics, one is greatly dependant on satellite measurements ore measurements done by rockets. Those do all the measuring while they are moving, which makes it difficult to define whether one is measuring the changes in time or space, and therefore one has to assume that the phenomena one is measuring, such as currents and electric fields, are static over a given time and size. This is why we have a limited understanding of the system dynamics which lead energy and momentum in toward the earth. Humberstet thus examines the dynamic character of this link between space and the earth.

Beate has recently [spent nine months in the USA](#). Her research stay at Johns Hopkins University Applied Physics Laboratory (APL) was financed by the help of a stipend provided by [Fulbright Foundation for Educational Exchange](#). This scholarship programme was founded in 1946 and is financed and administrated by the US Foreign Ministry, governments in other countries, and private interest. The programme was established in order to increase the understanding between people in the USA and other countries via an exchange of persons, ideas and knowledge. It is seen as one of the most prestigious scholarship programmes, and there are many Fulbright-alumni who have won the Nobel Prize than in any other academic programme.

- How did you like the USA?

- I liked it very much. That was my first time in the USA, but everything was in a way as expected from the American movies and TV-series. I lived in a small country town called [Herald Harbor](#), out toward the Chesapeake Bay, also known from the TV-series Hannibal. Before I left for the USA, there was much fuss around finding a safe area, since some of the Washington DC suburbs, as well as parts of Baltimore just 30 minutes away from APL, is known for heavy crime. I lived in a basement apartment of a house which we at times called the nerd ranch, since all of us who lived there and visited us were physicists, and I was in fact the only one who locked my door. Those who lived in Herald Harbor were a mix of the rich with houses facing the water and middle class, and many of them were involved in organizing events in the local environment, such as concerts on the grass patch outside the fire station, big activities around Halloween and an active pub-restaurant/shop in one and the same space. At the same time, it was a bit odd that when you went out for a walk, all you could see were people walking their dogs or the postman doing his rounds. I often used two hours to do my grocery shopping since the supermarket was so gigantic, and it took me many months before I discovered the right ingredients to make cinnamon buns. Although my weekdays were rather busy, with a lot of time used on commuting to and from work, not to mention the time for going shopping or training, there was still time for social activities in the weekend. Beate paddled in a kayak, participated in the Fulbright events, in addition to many a late night at the terrace of their Nerd Ranch.

Beate Humberstet was born in [Ørsta](#) in Sunnmøre in Møre og Romsdal, where she played football and handball, volunteered as sports instructor, and was a member of the Norwegian Red Cross Search and Rescue Corps. She moved to Bergen in order to study in 2004. While at UoB, she was a very engaged student, but also managed to find time for part-time jobs, and she worked as a care assistant, as host at VilVite-senteret, in addition to being active at the h-bar. After completing a Bachelor and Master in physics, she took up a practical-pedagogic education in mathematics and physics at UoB which gives her the option of teaching in Norwegian high-schools. Beate completed her Master in physics in 2009, and started her PhD research fellowship in 2012.



At a EGU-conference in San Francisco.

Click to enlarge the photo.

(cont.)

(cont.) During her PhD years, she has been catching interest several times from the media, among others Bergens Tidende and På Høyden. After she returned home from the USA, she was also elected as [Young Scientist](#)-representative in [EGU](#), as the first in the Solar-Terrestrial-division.

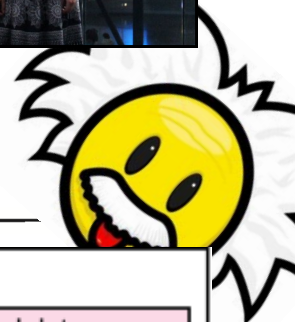
Her interest in physics started at high-school, and has grown ever since, driven by her curiosity and the desire to understand the natural phenomena. Beate says that she would very much like to stay in research, preferably in the academia, although the private business market also seems appealing. Her teaching certificate sits in her back pocket as a form of insurance.

Beate spends her free time with her family and friends, going hiking, preferably all the way to the top on ski or foot, as well as dealing with arts and crafts. She loves sewing and knitting, which clearly justifies her year of studying arts and crafts at a college in Volda.

Beate Humberst plans to finish her PhD at the end of 2015



From left to right: On top of Felden mountain in Volda; with a 5-kilo cod at Austefjorden; at the Brooklyn Bridge, on top of the Empire State Building; at Kennedy Space Center in Cape Canaveral, Florida (click on the pictures to see them in a bigger format)



F a k t a f r a V e r d e n

I torsdagens utgave av en viss tabloid, ble det påpekt:	Vi kan avsløre:	Ikke nok med det:
<p>STØY DU IKKE HØRER ER  HELSE SKADELIG Kommer når du sover!</p>	<p>TING DU IKKE SER KAN VÆRE SKADELIG FOR DEG  = </p>	<p>MAT DU IKKE SPISER KAN FØRE TIL KREFT </p>
Dette kan bare gå en vei:	Fakta fra Verden	Og til sist:
<p> SJOKK!   FOLK DU IKKE KJENNER KAN SKADE DEG</p>	<p>NOE HELT FRYKTELIG KAN SKJE NÅR SOM HELST </p>	<p>DET DU IKKE VET HAR DU SKIKKELIG SKIKKELIG VONDT AV </p>

CURRENT UoB WELFARE OFFERS

The Mount Ulriken

Ulriken643 Panorama tour takes you with the funicular to the high mountain in the middle of the town. The panorama plateau offers a mile wide view over Bergen and the surrounding area with the sea, archipelago, fjords and mountains. Ulriksbanen is open all days from 09.00 - 21.00. Ulriken offers many different hiking routes, GPS guide, track finder, free climbing and much more. **Single ticket price for UoB employees: 25 kr (regular price 195,-) max. 6 tickets per employee. If you want to go on a trip as a group, you may use several tickets.**



The price includes free use of bus and funicular, free coffee at the kiosk at the top, validity: 4 days
If you wish to use this ticket, send a request to post@poa.uib.no. The ticket can be collected and signed for at [Laurice-Solveig Majlaton Høie](#) in Christiesgt 18, 3rd floor, at the office. If you lose your card, you have to pay 200 kr per card which will be added to the price.



"Waffel Heart" is likely to be a real feelgood-experience for the entire family – from the youngest to the oldest. And now, treat the children in the family with something their parents haven't seen before! Remember that Astrid Lindgren and Thorbjørn Egner have also debuted once!

Dates: Thursday, October 16th, at 16.30 and Saturday, November 15th, at 15.00. Place: DNS

UiB-price: 110 kr

Tickets can be purchased through the DNS ticket office or by calling: 55 60 70 80

Tickets must be collected from the DNS ticket office **within 1 week following the purchase date.**

For more information: <http://www.dns.no/program/2014/vaffelhjarte/>



[Nordic Tenors](#) combine exquisite artistic quality with humor, dance and musical surprises. In 2005, they had a premiere of their first show Nordic Tenors & Sjur Hjeltnes/Bella Notte. The following year they received the comedy award as the "newcomers of the year". After that they have been the Royal toastmaster for HMK Harald in 2007, they opened the new opera hall in Bjørvika in 2008, and in 2009 they had their premiere of a New Show in Bergen and published their first CD "Live at Logen". In 2010 they were nominated to the comedy award for the "Year's best". In 2013 they are traveling around with the new show "An evening with Nordic Tenors" and the anniversary show "Ten years with Nordic Tenors". They are also on a Christmas-tour with the Swedish ensemble Neumann Strings. Their Christmas concerts are now among the most visited Christmas-tours in Norway.

For UiB-offer, click on the photo.

WE WOULD LIKE TO REMIND YOU ABOUT THIS YEAR'S WELCOME PARTY!

Do not forget this year's welcome party for the new students. If you are a second or third year student, or a master student, you are more than welcome to join. Among others we can reveal that the head of department Frette will be giving one of his classical lectures. The deadline for registration was on Thursday, September 18, but we can still register a few more of you. Just let the student committee know or give a notice to Anders at the expedition.



Where: The Bachelor-room and the canteen on the 2nd floor at the department. When: Friday September 26th at 16.00.



THIS WEEK'S PHOTO

Panorama from the top of Bjørn Trumpy building

The photo was taken by [Kjetil Vedelden Heitmann](#). Click on the photo for a larger version



CHRISTMAS PARTY 2014

This year's Christmas Party at IFT will take place on Friday, November 21st. Book this day already today! Registration details will be provided later.



H-BAR

H-bar is open every Friday from 19.00 - 01.00.

On Tuesdays, every even-numbered week, there are organized pub-lectures at H-bar.

More info at H-bar's [facebook page](#).

H-bar is run by IFT's Fagutvalget, and is primarily aimed at department's students – but employees are also welcome!

PUBLICATIONS:

- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin dit; Rosendahl, P. L.; Sandaker, H.; Sjusen, T. B.; Smestad, L.; Ugland, M.; et al.: *Measurement of the centrality and pseudorapidity dependence of the integrated elliptic flow in lead-lead collisions at root S-NN=2.76 TeV with the ATLAS detector* EUROPEAN PHYSICAL JOURNAL C Volume: 74 Issue: 8
- Altinpinar, S.; Djuvsland, O.; Fehlker, D.; Haaland, O.; Huang, M.; Loenne, P. I.; Nystrand, J.; Rehman, A.; Rohrich, D.; Skjerdal, K.; Ullaland, K.; Velure, A.; Wagner, B.; Yang, S.; et al.: *Measurement of quarkonium production at forward rapidity in collisions at TeV* EUROPEAN PHYSICAL JOURNAL C Volume: 74 Issue: 8 Article Number: 2974
- Stamnes, Jakob J.; et al.: *New neural-network-based method to infer total ozone column amounts and cloud effects from multi-channel, moderate bandwidth filter instruments* OPTICS EXPRESS Volume: 22 Issue: 16
- Muren, Ludvig P.; et al.: *NACP 2014 and the Turku PET symposium: The interaction between therapy and imaging* ACTA ONCOLOGICA Volume: 53 Issue: 8 Pages: 993-996
- Ytre-Hauge, Kristian S.; Rohrich, Dieter; Szostak, Artur; et al.: *Estimated risk of radiation-induced cancer following paediatric cranio-spinal irradiation with electron, photon and proton therapy* ACTA ONCOLOGICA Volume: 53 Issue: 8 Pages: 1048-1057
- Helseth, L. E.: *Excitation of energy harvesters using stick-slip motion* SMART MATERIALS AND STRUCTURES Volume: 23 Issue: 8
- Buanes, T.; Burgess, T.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Rosendahl, P. L.; Sandaker, H.; Sjusen, T. B.; Ugland, M.; et al.: *Measurement of $\chi(c1)$ and $\chi(c2)$ production with root s=7 TeV pp collisions at ATLAS* JOURNAL OF HIGH ENERGY PHYSICS Issue: 7 Article Number: 154





USEFUL LINKS

[The IFT Webpages](#)

[Employees at the administration](#)

[Webpages of the Faculty](#)

[Employee Pages at the UoB](#)

[The Board of Faculty](#)

[The Faculty- Strategy and Vision](#)

[Pubmed](#)

The internet News Bulletin [På Høyden](#)
(internalnews for UoB)

[Archive of IFT-posten](#)

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[Recent PhDs at the UoB](#)

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The Student Council at IFT:

<http://fft.uib.no/>

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