

IFT-POSTEN

NYTT FRA INSTITUTT FOR FYSIKK
OG TEKNOLOGI
UNIVERSITETET I BERGEN



DEPARTMENT HEAD'S INTRO

WEEK 39, 2014



It is a great joy to be able to congratulate Thomas Gjesteland on receiving the Yaras Birkeland Award. This is, naturally, a great gamma flash moment for Thomas, as well as for his colleagues at the Birkeland's Centre and all of us at IFT are very happy for him.

I would also like to thank Kjartan and his seven helpers for great contribution during the Research Days which took place last weekend. This is an important event which presents us in a good way to the population of Bergen. Kjartan and his crew continue with their good deeds by participating in the Research Days for the Young which takes place this Friday.

Have you still not signed up for the Welcome Party for the new Bachelor students which takes place this afternoon? Although Bachelor students are the main guests of the party, Master students, PhDs, PostDocs and permanent research employees are also invited. There are still some vacancies, lots of good food, guaranteed fun atmosphere, and a lively bunch, so if you wish to join, just inform Anders Kulseng.

Have a great weekend,

Øyvind



YARAS BIRKELAND AWARD GOES TO THOMAS GJESTELAND FROM BCSS

Last Thursday it became public knowledge that researcher [Thomas Gjesteland](#) has been awarded the Yaras Birkeland Award in physics and chemistry, for his [research in gamma flash](#). The award includes a sum of 100 000 kroner, and is awarded to PhD students if their research contributes to technological breakthroughs and innovations. The award places focus on environment and technology, and shows interest in research and development in both of the above mentioned fields. You can read more about this award in [Teknisk Ukeblad](#) (norwegian).

IFT-posten congratulates .

 Følg oss på
Facebook

ANNOUNCEMENT - AKADEMIAAVTALEN

UoB has an agreement with Statoil, whereby one can apply for funds for conferences, etc, and support for the visiting guest lecturers, with up to 25 000 kroner per person. Anyone can apply, including Master students, although PhDs and PostDocs will be prioritized. This is the 2nd announcement of funds for academic exchange in 2014, and application deadline is October 20. For more information, check out the [announcement](#) and its corresponding [application form](#).



On Friday, September 19, and Saturday, September 20, the Birkeland Centre was represented at the Research Market, as part of the Bergen Research Days. Friday was reserved for primary school students, while Saturday was open for everyone.

Text: Vegard Aamodt and Markus Antonius Marszalek, Master students of Integrated Teacher Programme with Master in Science or Mathematics

Photos: Kjartan Olafsson

After a great summer with lots of thunders and new northern lights observations over Bergen, there was a great potential for attracting streams of curious audiences. At our station, we had a "Van de Graaff"-generator, copper pipes and magnet, laser and lenses, tele-, gyro- and spectroscope. All of this plus a great deal of brilliant hosts who were there to induce curiosity and inspiration among the audience.

On Friday, the city awoke to a blue sky and lovely sunshine. That gave us a perfect opportunity to study the Sun. Bergen kids were glistening under the sun while discovering the sun spots. The pressure on the Van de Graaff device was sky high and the kids thought that mini-lightning was absolutely ecstatic. On Saturday we got lots of rain, but despite that, the size of the audience was even greater. The stall also got a lot of attention from different media, TV2 among others.



Kjetil Albrechtsen inspires the young and the old



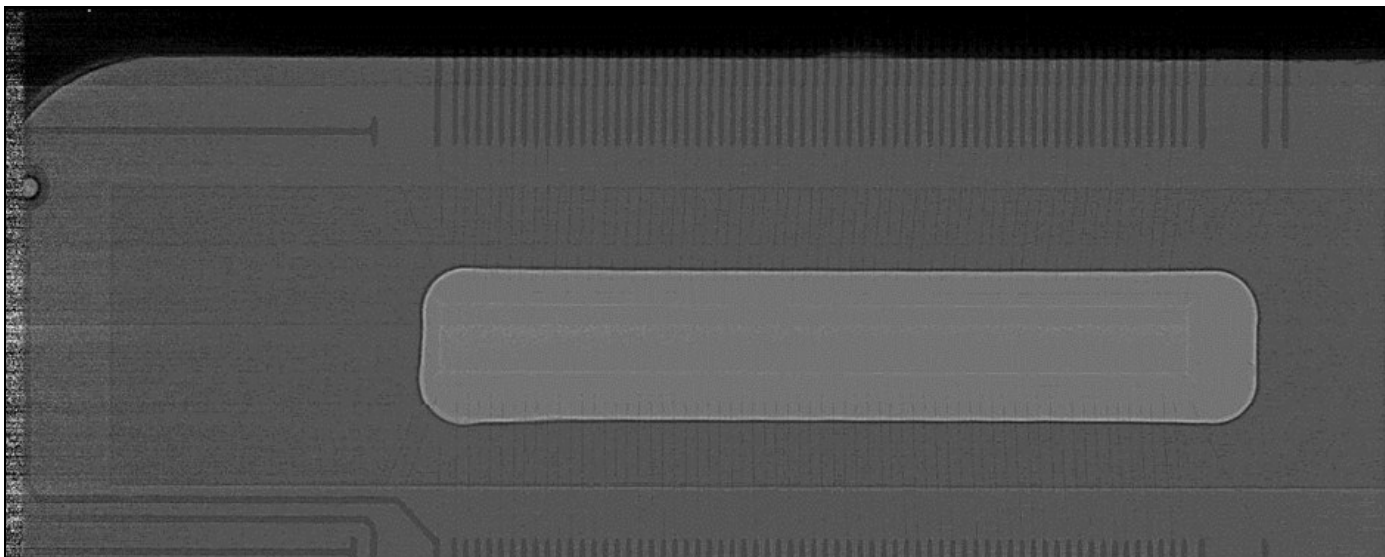
Do you see the sun spot on the Sun?

PHOTOS OF THE WEEK

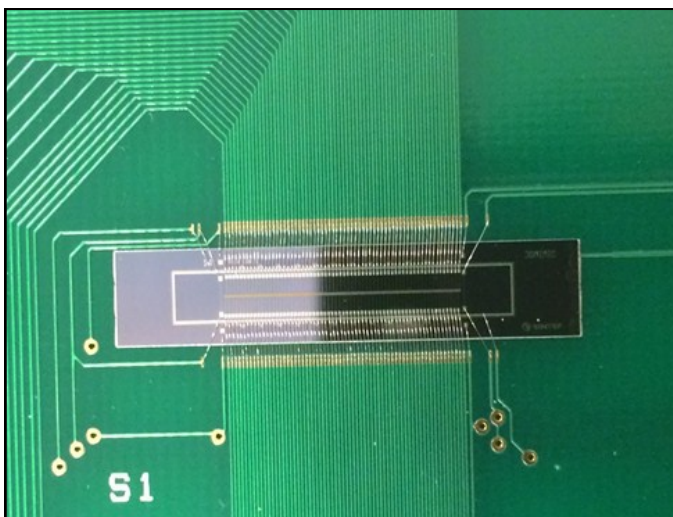
IFT is a partner in the project entitled «3DMiMiC», which works on developing radiation sensors and dosimeters made of silicone at SINTEFs MiNaLab. The aim of the radiation sensor is to monitor the profile of intense parallel x-rays. Such radiation can be produced at ESRF (European Synchrotron Radiation Facility) in Grenoble. What they are researching there is the so-called MRT (Microbeam Radiation Therapy) which can improve the effects of radiation therapy on certain types of cancer.

The radiation monitor is divided into parallel stripes which are 100 micrometer apart, where each stripe has a position resolution of approximately 10 micrometer. The active area of the silicon detector is only 10 micrometer thick.

The photos have been supplied by professor Bjarne Stugu, og were taken by postdoctor Enver Alagoz.



X-ray photo of the sensor, taken at ESRF. This is also used to align the detector with the synchrotron radiation. Unfortunately, details in stripe formations are not clearly visible.



A part of the circuit board on which the silicon detector is mounted, and a photo of the entire setup in a container which is positioned in the beam.



WELFARE OFFERS FROM THE UOB

Visiting musicians at the Korskirken ([the Cross Church](#))

Students at The Grieg Academy will this week receive tuition in ensemble playing from renowned musicians Anton Sorokow (concert master Wien Symfoniker) and Stefan Kropfitch (Jess Trio Wien). The project is concluded with a concert in Korskirken on Saturday 4th October, 7:30 PM. We will get to hear the guests as soloists together with teachers and students at the Grieg Academy.

For more info, [take a look at this page](#) (Norwegian only).

We are happy to offer employees at UiB tickets for NOK 100,-.

Please send a reservation to produsent@rieg.uib.no. You pay and pick up the tickets at Korskirken on showday from 7:00 pm.

The musicians (*Click on the names for english bio*):

[Anton Sorokow](#)

[Stefan Kropfitch](#) [Léa Hennino](#)

[Léa Hennino](#)

From the programme:

Edvard Grieg (1843-1907)

- Sonata for violin and piano in C minor, op.45
- Two Nordic Melodies, op.63

Wolfgang Amadeus Mozart (1756-1791)

- Divertimento i D-minor, KV 136

Antonín Dvořák (1841-1904)

- Piano quintet in A Major, op. 81

Other Musicians:

Anton Sorokow – violin

Stefan Kropfitch – cello

Léa Hennino – viola

Ricardo Odriozola – violin

Audun Kayser – piano

Jørn Skauge – piano

The Grieg Academy String Students

Alexander Lund

Producer

The Grieg Academy



WELFARE OFFERS FROM THE UoB



PLUTTI PUTTI POTT

Dates:

Saturday, November 29th, at 13:00 and 18:00

Sunday, November 30th, at 13:00 and 18:00

V

venue: Grieghallen concert hall

UoB price: 255 kr (max 6 tickets per person)

Tickets can be ordered via Ticket Office at Grieghallen or by phone: 55 21 61 50

When ordering/paying, you need to show your UoB employee card in order to get the discount.

More information: <http://www.revyogteater.no/events/bergen/events/putti-plutti-pott.aspx>



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.; Kocian, M.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjusren, T.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: *Search for supersymmetry in events with four or more leptons in root $s=8$ TeV pp collisions with the ATLAS detector* PHYSICAL REVIEW D Volume: 90 Issue: 5
- Toth, Gyula I.; Provas, Nikolas: *Advanced Ginzburg-Landau theory of freezing: A density-functional approach* PHYSICAL REVIEW B Volume: 90 Issue: 10
- Csernai, L. P.; Wang, D.J; et al.: *Vorticity in peripheral collisions at the Facility for Antiproton and Ion Research and at the JINR Nuclotron-based Ion Collider fAcility* PHYSICAL REVIEW C Volume: 90 Issue: 2
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Rosendahl, P. L.; Sandaker, H.; Sjusren, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: *Light-quark and gluon jet discrimination in collisions at root $s=7$ TeV with the ATLAS detector* EUROPEAN PHYSICAL JOURNAL C Volume: 74 Issue: 8
- Kersten, Joern; et al.: *Understanding the correlation between $(g-2)(\mu)$ and $\mu \rightarrow e \gamma$ in the MSSM* JOURNAL OF HIGH ENERGY PHYSICS Issue: 8
- Buanes, T.; Dale, O.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Latour, B. Martin Dit; Sandaker, H.; Sjusren, T. B.; Smestad, L.; Stugu, B.; Ugland, M.; et al.: *Search for microscopic black holes and string balls in final states with leptons and jets with the ATLAS detector at root $s=8$ TeV* JOURNAL OF HIGH ENERGY PHYSICS Issue: 8
- Vaagen, J. S.; et al.: *Cluster model with core excitations. The Be-11 example* PHYSICS OF ATOMIC NUCLEI Volume: 77 Issue: 8 Pages: 989-998
- Buanes, T.; Eigen, G.; Kastanas, A.; Liebig, W.; Lipniacka, A.; Sandaker, H.; Sjusren, T. B.; Stugu, B.; Ugland, M.; et al.: *Monitoring and data quality assessment of the ATLAS liquid argon calorimeter* JOURNAL OF INSTRUMENTATION Volume: 9
- Eigen, G.; et al.: *The time structure of hadronic showers in highly granular calorimeters with tungsten and steel absorbers* JOURNAL OF INSTRUMENTATION Volume: 9





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](#)

[PagaWeb](#) (Your current job)

[BRITA](#) (IT-support)

[LYDIA](#) (transport)

[SEBRA](#) (user account)

[Recent PhDs at the UoB](#)

(only in Norwegian)

[The HSE Gateway](#)

[My Space](#)

The Student Council at IFT:

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

[Facebook](#)

[The Campus Bus](#)

[Cristin](#)

[UoB internal phonebook](#)

[Employee pages FAQ A - W](#)

[Vacant positions at UoB](#)

[The UiB Magazine](#)

Contact the editor of IFT-posten:

anders.kulseng@ift.uib.no

IFT-posten is published by the Department of Physics and
Technology, University of Bergen.

Telephone: +47 55 58 28 06

Faks: +47 55 58 94 40

Contact: ift-posten@ift.uib.no

