KILU Newsletter, week 48, 2019-11-27

KILU Newsletter is the Department of Chemistry's internal newsletter. The letter can be read in the web browser on http://www.kilu.lu.se/internt/kommunikation/newsletter/week-48-2019/

Next Newsletter will be out in the end of December, before Christmas holidays. Send information you would like to have in the Newsletter to kommunikation@kilu.lu.se.

Messages

Registration sideline - Anmälan Bisysslor

All teachers at Lund University have an obligation to submit an application for secondary employment. Even those who have no sideline should report this. Registration of by-employment is done via Primula. If you know with you that you have not registered a job application for 2019, I ask you to do so as soon as possible.

A more thorough text can be found on https://www.staff.lu.se/employment/terms-of-employment/secondary-employment

"Alla lärare vid Lunds universitet har en skyldighet att göra en anmälan om bisyssla. Även den som inte har någon bisyssla ska anmäla detta. Anmälan om bisyssla görs via Primula. Om du vet med dig att du för 2019 inte registrerat en anmälan om bisyssla ber jag dig göra det snarast"

Länk till regelverket kring bisysslor: https://www.medarbetarwebben.lu.se/anstallning/att-yara-anstalld/bisyssla

Health promotion

A reminder for all employees at Lund University.

All employees at Lund University are entitled to reimbursement of health promotion activities and to a health promotion hour.

Read more here
If you have questions, contact
Annica Holmgren
annica.holmgren@hr.lu.se
or
Heidi Francke
heidi.francke@hr.lu.se

University-wide partnerships

In recent years, university-wide partnerships have become a new way of cooperating on internationalisation of higher education and research, with an increasing trend towards closer partnerships. Today, Lund University is involved in several strategic partnerships.

If you are interested, find out if there are some possibilities for you.

Read more at:
https://www.staff.lu.se/research-and-education/international-opportunities-and-partnerships/international-collaboration/university-wide-partnerships

Nominate candidates for science prize

The World Cultural Council (WCC) is now accepting nominations for the Albert Einstein World Award of Science. The last day for the nomination of candidates is 12 December.

The “Albert Einstein” World Award of Science was created as a means of recognition and encouragement for scientific and technological research and development. It takes into special consideration research which has brought true benefit and wellbeing to mankind.
The winner of the award is elected by the Interdisciplinary Committee, which is composed of world renowned scientists, among them several Nobel laureates.

More information about this price can be found on the link:
https://www.consejoculturalmundial.org/awards/world-award-of-science/

The form for registration and nomination is on this link:
https://www.consejoculturalmundial.org/nomination-requirements/

**Lunch concerts at Pufendorf**

A reminder for all interested and in need for a good lunch break.

Classicum is a sonorous space and this is most noticeable when the house is filled with music! Once a month, The Pufendorf IAS hosts concerts, so bring your lunch and enjoy the performance. For current programme and more information, please go to [the Swedish website](https://www.pi.lu.se/en/events/lunch-concerts). The next concert is 10th of December – **Trio Wolski**.

**Time:** 12.15 - 13.00  
**Place:** Pufendorf IAS, 2nd floor

Read more att the link: [https://www.pi.lu.se/en/events/lunch-concerts](https://www.pi.lu.se/en/events/lunch-concerts)

**Prevent work related injuries**

Ill health caused by sedentary, static or monotonous work causes major problems for employees. The university has purchased a break program, *PausIt*, which all employees can download on their computer.

*PausIt*’s break program offers break gymnastics during the work day. It is a computer-based tool that helps and assists you with exercises that prevent stiffness and pain in the back, shoulders, head and neck. It also reduces stress and improves blood circulation.

You choose how often and how long you want to move. And you also choose which way you want to move. Either you get a mixed selection of exercises for neck, back, shoulders and shoulders, or you choose an area to focus on, such as your back.

The program offers over 100 exercises developed in consultation with physiotherapists, ergonomists and orthopedic doctors. It reminds you when it's time to work out and for statistics on how much you've been training. The program is available in Swedish and English, for installation:

**For you with EGA, LUMac and PLS computer:** Download the program directly via "Software center" or "Self service". (For PC: go through the start menu, search: Software center.For Mac: go through Self service). Select PausIt.

**For other computers:** Log in to the ([programförmedlingen](https://www.ldc.lu.se/tjanster/programformedlingen)) program.ldc.lu.se. Select the Pausit folder and follow the installation instructions in Pausit.txt

Link for download [https://www.ldc.lu.se/tjanster/programformedlingen](https://www.ldc.lu.se/tjanster/programformedlingen)

This year **iGEM Lund** was awarded a gold medal for his project on probiotic bacteria as protection against heavy metals.

TeamLund, along with about 350 other teams, participated in the iGEM research competition, which culminated in October in Boston. Each team would with the help of synthetic biology, solve a “real life problem”. iGEM Lund has modified a probiotic bacterium to help the body get rid of the toxic metals lead and arsenic.

iGEM Lund was one of the teams awarded gold for their work. You can read more about the project on our website: [https://2019.igem.org/Team:Lund](https://2019.igem.org/Team:Lund).

The International Genetically Engineered Machine (iGEM) Foundation is an independent, non-profit organization dedicated to education and competition, the advancement of synthetic biology, and the development of an open community and collaboration.

iGEM began in January 2003 as an independent study course at the Massachusetts Institute of Technology (MIT) where students developed biological devices to make cells blink. This course became a summer competition with 5 teams in 2004 and continued to grow to 13 teams in 2005; it expanded to 340 teams in 2018, reaching 42 countries and over 5,000 participants.
Read more about the competition

Opening hours Statens Service Center (SSC) during holidays
Phone 09.00-16.00 these dates 191223, 191227 and 191230. The portal is manned 08: 00:16:30 but you can log the case around the clock.

From January 1, 2020, opening hours for telephone support will be between 09: 00-12: 00 but the portal will be manned as before 08: 00-16: 30 Phone: 0771-456 000

Portal: https://portalen.statensssc.se

Öppettider Statens Service Center (SSC)
Telefon 09.00-16.00 dessa datum 191223, 191227 och 191230. Portalen bemannas 08:00-16:30 men du kan logga ärende dygnet runt.

Från och med 1 januari 2020 kommer öppettider för telefonsupport att vara mellan 09:00-12:00 men portalen bemannas som tidigare 08:00-16:30.

Telefon: 0771-456 000
Portal: portalen.statensssc.se

Opening at the KC library during Christmas and New year
Christmas holidays: closed on 21 December to 6 January
Regular opening hours from Tuesday 7 January 2020

News

New deal with Elsevier and Wiley

BIBSAM and KB have, after long and hard work, managed to negotiate new agreements with Elsevier (ScienceDirect Freedom Collection and Cell) and Wiley. This means that our researchers - after all the universities have approved the agreements - will again have access to these journal packages, even back in time. The price increases, of course, but not unreasonably much. In addition, in the future we will publish "free" with full Open Access.

More on this will be presented soon.

Researcher in media

Chemistry professor criticises much-discussed washing method

Ulf Ellervik, professor at the Department of Chemistry, was interviewed about the washing method that uses deionised water and no detergent. “The fact that the water is ultraclean does not give it any new properties – it doesn’t mean that it can suddenly dissolve fat. For that reason, I can’t see why deionised water would be any more effective than ordinary tap water”, he says.

Professor talks about Chemistry Day

Peter Somfai, professor at the Department of Chemistry, was interviewed about Chemistry Day, an event recently held in Lund that is aimed at school pupils. “In Sweden we have a proud history of chemistry and we still have a lot of very exciting and outstanding chemistry research, but if we are to continue at the top, more young people must understand how enjoyable and exciting chemistry is. That’s why Chemistry Day is so important”, says Somfai.

Chemistry professor participated in well-attended battery seminar

Peter Somfai, professor at the Department of Chemistry, was mentioned due to his introductory talk for a breakfast seminar about batteries. Somfai took the opportunity to comment on the year’s Nobel Prize for Chemistry, which was awarded for the development of the lithium ion battery. “A prize that for once everyone can understand and even grasp the connection to chemistry”, he said.
Research funding

FORTE: Annual open call for proposals

A substantial part of Forte’s research funding is administered through the annual open call for proposals, which is announced in December every year. On this page you can find information about the types of grants, scientific panels and the application process.

The annual open call welcomes all applications within Forte’s overall responsibilities of health, working life and welfare. The purpose of the annual open call is to enable researchers to analyse and contribute to the understanding of a specific research area or question. Projects are prioritised based on the scientific quality of the research proposal as well as its potential to achieve societal impact in a short or long term perspective.

There are three types of grants:

- Project grants
- Junior research grants
- Postdoc grants

Read more on Fortes site

Apply for grants and scholarships

Apply for funding from Erasmus+ for staff training, travel and teaching staff mobility

The University’s employees can now apply for the following funding from Erasmus+:

- Staff training – the application deadline for staff training in the spring of 2020 is 1 December. Read more and apply for staff training – staff.lu.se
- Travel grants to promote collaborations between European universities within Erasmus+ – the application deadline for travel in the spring of 2020 is 1 December. Read more and apply for travel grants – staff.lu.se
- Teaching staff mobility – applications can be made at any time. Read more and apply for teaching staff mobility – staff.lu.se

Apply for an innovation prize

Do you have an idea that could result in a new product, service or working method in the future? Together with Sparbanken Skåne, LU Innovation awards SEK 300 000 for the innovations of the future. The application deadline is 8 December.

Read more and apply on the LU Innovation website

Nominate candidates for the Volvo Environmental Prize

It’s time to nominate candidates for the Volvo Environmental Prize 2020. The prize is awarded for outstanding innovations or scientific discoveries, which in broad terms fall within the environmental field. The nomination deadline is 10 January.

Read more and nominate - environment-prize.com

LINXS, Lund Institute of Advanced Neutron and X-ray Science, invites a new Theme for 2020-2023

LINXS has opened a new Theme call for 2020 – 2023, in the areas of hard-condensed matter, materials, and related areas in order to complement the existing Themes at the Institute.

LINXS welcomes applications from research groups from partner organisations (currently Lund University) who would like to drive funded activities under a Theme framework for 2020 –2023 as well as support the realisation of the LINXS vision and mission. A Theme involves research around developing and using neutron and x-ray techniques from data acquisition through experiments to data analysis, simulation and theory. Deadline: 2020-02-28, 17:00 PM CET

Read more and apply at LINXS.se

Svenska
LINXS, Lund Institute of Advanced Neutron and X-ray Science, utlyser ett nytt tematiskt område 2020 – 2023

LINXS bjöder in forskargrupper vid partnerorganisationer (nuvarande partner är Lunds universitet) att ansöka om möjligheten att få forma ett tema vid institutet under 2020 – 2023. Ett tema är kopplat till ett eller flera fokusområden och involverar forskning som syftar till att utveckla och att använda neutron- och röntgentekniker; från experiment
Calender

LINXS SEMINAR  with Dr. Garib Murshudov

Cambridge-UK

Speaker: Dr. Garib Murshudov, MRC Laboratory of Molecular Biology in Cambridge, UK
Title: Refinement of atomic models against crystallographic data and cryoEM maps
When: Friday 6th of December 2019 at 15.00-16.00
Where: Workshop room at LINXS 6th floor, Scheelevägen 19, Lund (Ideon Delta 5)

Abstract:
To extract accurate and biologically relevant atomic models using noisy and limited data often produced by
crystallographic experiments and cryoEM reconstructions it is necessary to design and use accurate likelihood
functions linking the data and atomic models as well as a tool to utilise complementary information to the data – prior
probability distributions.

In this talk a short review of the likelihood function describing the fit of atomic models into crystallographic and
cryoEM data, and posterior probability distribution of “true” Fourier coefficients used for various map calculations
(difference and updated maps) will be given. The remaining of the talk will focus on the design and use of prior
complementary information including stereochemical information extracted from small molecular database –
Crystallography Open Database, local conformational information extracted from similar macromolecular structures,
information about secondary structures. Use of NMR data for crystallographic refinement will also be outlined.