LINXS

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Words from the Director Trevor Forsyth

After over four months in Lund, with the pandemic receding and spring lighting up the city, I am enjoying being immersed in such a vibrant and collegiate atmosphere – despite the horrific events on the other side of the Baltic Sea.

As a university Lund has huge academic capability, strong regional engagement, and crucial national and international roles to chart over the coming years. MAX-IV and ESS, right on our doorstep, are huge assets that have been created for the whole country and for the international community. With new Directors taking over at both facilities (Helmut Schober at ESS and Charlie Karis at MAX-IV), there will undoubtedly be exciting developments and opportunities for LINXS in the coming years.

As all of this happens, the university is planning its future in relation to the Science Village (SV) at Brunnshög – something that will shape the academic environment and its relationship to the city, the region, the country for decades to come. LINXS will play a crucial part in all of this of course, facilitating development and cultivating scientific connectivity within a landscape that itself is developing extremely rapidly. As part of this, it will retain many important lessons learnt from the pandemic.

LINXS will, by definition, always remain a real-life institute, although it will retain the important lessons learnt from the pandemic, and fully exploit virtual communications and

minimise unnecessary travel. We will relocate from the IDEON science park to extended premises in SV as early as possible so that it can implement its key enabling roles before and during the moves of key local, national, and international centres onto the site. In the meantime,

LINXS will be hosting a large number of highly diverse scientific events/activities in the coming months – again signaling a revival of real life activity in 2022. The next **LINXS Science Day, with the theme "Rebooting from the pandemic" will occur on Friday 29th April** and will feature presentations from all over the country (and beyond) and also of course from within the LINXS themes that cover hard condensed matter, soft condensed matter, and life sciences. There are already a large number of people signed up for this, so if you want to attend, please register soon.

Shortly after this, the **3rd Integrative Structural Biology symposium** will be held at Kulturen (in the city centre) on 4-6 May – again with an excellent science program. There are also two events on imaging – one on **27th April on Food 3D Image Analysis**, and a **Medical Imaging Workshop on the 11th May** in the Biomedical Centre of the Medical Faculty.

The Northern Lights on Food workshop will be held in early June and shortly afterwards there will be a **workshop on analysis/software aspects for magnetic SANS**. **In mid-June there will be a partner event on Lipid Science involving LINXS, ESS and ILL,** and summer will be ushered in with a **catalysis workshop on June 30th**.

Post-Doctoral Fellow: Catalytic properties at the nanoscale probed by time-resolved Bragg coherent diffraction imaging

The postdoctoral research project is part of a five-year ERC-funded project called CARINE (*Coherent diffrAction foR a Look Inside NanostructurEs towards atomic resolution: catalysis and interfaces* – https://carine-erc.eu) to develop and apply new coherent diffraction imaging (CDI) capabilities.

The successful candidate will develop time-resolved Bragg coherent diffraction imaging to study *in situ* and *operando* the structural evolution of catalytic nanoparticles in various

gaseous and liquid environments during reaction. He/she will participate in the set-up development and experiments, will perform the data treatment using the so-called phase retrieval algorithms. The work will be performed in close collaboration with the ID01 beamline of The European Synchrotron (ESRF).

The applicant should hold a PhD in physics, chemistry or material science or closely related science. Previous experience of synchrotron x-ray diffraction, time-resolved experiments as well as catalysis will be an advantage.

More details about the position, criteria and how to apply via the link below:
Contact person Marie-Ingrid Richard (mrichard@esrf.fr)

READ MORE ABOUT THE POSITION AND HOW TO APPLY

29
April

REGISTER

LINXS Science Day 2022 - Rebooting from the pandemic

Welcome to discuss the LINXS science and development in the past four years and the future ambitions in expanding the LINXS community. **You can still register to attend online by sending an email to asa.grunning@fsi.lu.se**

Hybrid event: LINXS, Scheelevägen 19 and online (zoom)
Friday 29 April at 08.30 - 18.30

Calendar

Our upcoming workshops, seminars and conferences.

4-6
May

LINXS 3rd Integrative Structural Biology symposium

Kulturen, Lund at 13.00 - 13.00 4–6 May

11
May

LINXS Imaging workshop - Imaging possibilities for breakthrough in medical research

BMC D15, Belfragesalen, at 09.00-13.00

12
May

CoWork series: A new Bragg Coherent Diffractive Imaging beamline at NSLS-II, with Garth Williams

Webinar 15.30 - 16.30.

1-3
June

Workshop - Northern Lights on Food III

Palaestra, Lund University, 1 June at 12,00-3 June at 13.00

MORE EVENTS

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www.linxs.se | info@linxs.lu.se | Phone: +46 70 330 77 80

If you want to include anything in the newsletter, please email: info@linxs.lu.se.