



Words from the Director Trevor Forsyth

LINXS seems to have grown explosively out of the pandemic during the year and now seems to be a hive of scientific activity.

As you will have heard, LINXS has announced a new Theme call for which the application deadline is **November 18th**. The new call features an adapted business model that allows applicants from anywhere to propose and lead a Theme. The underlying motivation is to radically improve national and international inclusivity and with it to extend the scientific scope of LINXS and its exploitation of the large facilities such as MAX-IV and ESS. We encourage innovative and original proposals that will expand the scope of neutron and X-ray-based research into new areas that address new research questions.



In September, we had our bi-annual Science Day, this time with a focus on two of our legacy themes: Dynamics and Imaging. The event boasted the largest number of registrations for any LINXS Science Day to date. The sessions were truly excellent and it was great to hear about the work undertaken in the two themes and to see so many people join over the course of the event. We have also had a very successful event on Biomedical Imaging as part of the IPDD theme, an Industry workshop on

Food Colloids within the NLF theme, and a mid-term meeting with the Antibodies in Solution research programme. Last week we had yet another very-well attended meeting of the Time Resolved Structural Biology working group of the ISB Theme. In addition, LINXS has hosted a number of graduate schools, which we see as very important in terms of supporting the education of potential new users of X-rays and neutrons in the future.

LINXS, together with the Antibodies in Solution research programme, is launching a new webinar series which will be an educational venture for researchers eager to learn more about antibodies. We also have an IPDD meeting on Structure-based Drug-design in mid-November which we are very excited about – where researchers from many disciplines will gather to discuss how to develop new structure-based drug compounds.

On 30 November, prominent researcher Paul Langan (Director, ILL in Grenoble) will present a seminar at LINXS, followed by Robert McGreevy (LENS Chairman and previous Director of ISIS in UK) in early December. Next year we hope to schedule Helmut Schober (Director, ESS), and Giovanna Fragneto (incoming Science Director of ESS). Please keep an eye [on our website](#) for the scheduling, as we are continuously updating our activities calendar.

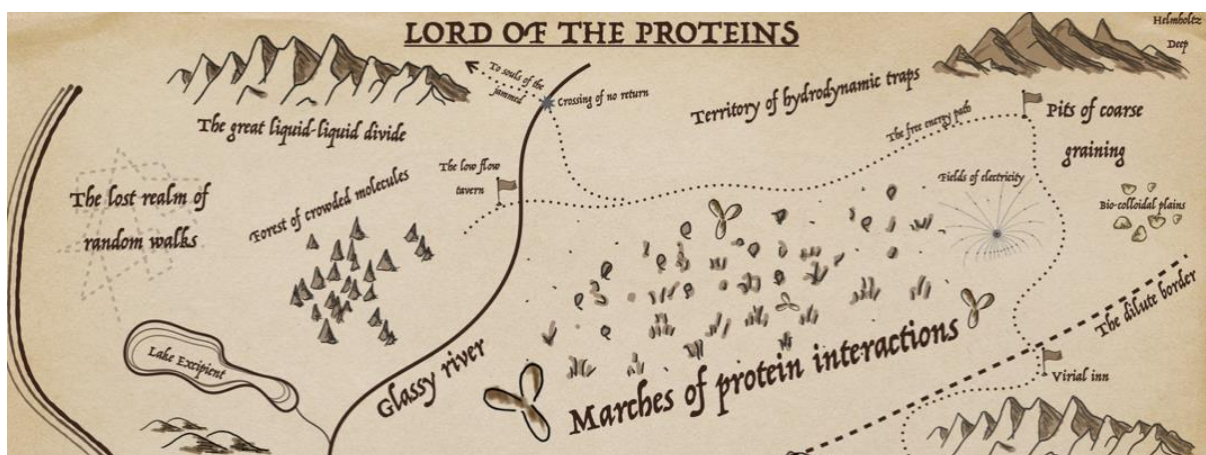
Finally, take care and stay safe as we are now approaching the dark months of autumn and winter!

LINXS Theme call 2022

LINXS invites proposals for new Themes relating to the application of X-ray and neutron-based science on any topic related to the LINXS focus areas (hard matter, soft matter, and life sciences).

A Theme should be designed to progress that topic by resourcing interactions between different groups/areas through relevant and strategic activities that make the network more than the sum of its parts.

[READ ABOUT THE THEME CALL](#)



Antibodies in Solution: a LINXS – NIST webinar series

LINXS is delighted to announce the Antibodies in Solution: a LINXS – NIST webinar series.

It is organised by the Antibodies in Solution research programme.

– Progress in understanding complex biomolecules such as antibodies in solution requires an interdisciplinary approach and collaboration of experimentalists and theoreticians with different scientific backgrounds from academia and industry. This webinar series aims at creating a common basis through didactical lectures in order to enable a successful future collaboration in this important field of research, says Anna Stradner, Professor in Physical Chemistry, Lund University.

The first lecture is on 2nd November:

"Therapeutic monoclonal antibodies - significance for patients and evolution into the future" with Karoline Bechtold-Peters, NOVARTIS, Switzerland.

[Read about the new webinar series](#)

2

November

REGISTER

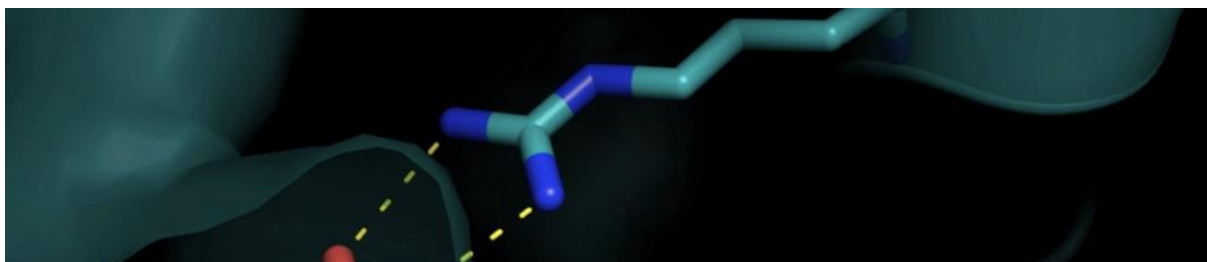
7

November

REGISTER

Webinar with NLF Working Group on Food Structure and Health

The Northern Lights on Food working group on Food Structure and Health welcomes you to a web seminar on November 7th.



IPDD Structure-based Drug Design Meeting

In mid-November, the Structure-based Drug Design working group within the IPDD theme is inviting researchers to a meeting on structure-based drug design. The hope is to gather researchers working on different aspects of structure-based drug design and to build a network of researchers wishing to use X-ray and neutron techniques to develop new drugs.

– This meeting is for everyone with an interest in drug-discovery. It covers several areas of expertise so we hope to see a broad mix of people at the event. We have also opened up for researchers to contribute with talks to the programme, so as to make the two days collaborative and interesting for many people, says Raminta Venskutonyte, Assistant researcher at Medical Structural Biology, Lund University.

[Read an interview about the meeting](#)

14-

15

November

REGISTER



LINXS Science Day - well done Imaging and Dynamics!

In September, LINXS organised its bi-annual Science Day. This time, the focus was on our two legacy themes Imaging and Dynamics. Over the course of two days, researchers from within the themes presented research, and relevant results coming out from the initiatives.

In total there were 65 people attending physically over the course of the two days, with many participating digitally (102 participants in total).

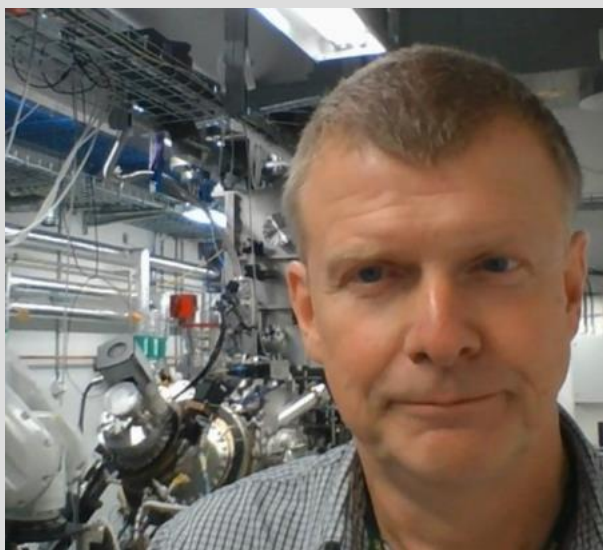
[Read reflections about LINXS Science Day](#)



Expanding the scope of biological membrane research

With more than 85 people attending the recent Lipid Bilayers at ESS (BESS) conference, Professor Tommy Nylander concludes that the event was a great success. It was organised as part of a series of conferences gathering researchers globally who work on biological membranes, biophysics and modelling.

[Read about the conference](#)



Jörgen Larsson is LINXS Co-Director since July

He is responsible for LINXS focus area of hard matter, and is a professor and the head of the division for Atomic Physics at the Dept. of Physics at the Faculty of Engineering (LTH) at Lund University.

[Read a small interview with Jörgen Larsson](#)



Peter Schurtenberger received prize

Professor Peter Schurtenberger, LINXS fellow and founding Director, has been awarded the Graham Prize in Berlin at the 51st General Assembly of the German Colloid Society.

[Read a small article about the award](#)

Seminal work on polymer networks

Stefano A. Mezzasalma, a previous guest researcher within the ISB theme, has recently first-authored a seminal work on the rubber elasticity of polymer networks in explicitly non-Gaussian states. He says that further research developments can benefit by interaction with the scientific community at LINXS, and the opportunities provided by the SoftiMAX beamline at MAX IV.

[READ AN INTERVIEW ABOUT HIS RESEARCH](#)

School on neutron scattering successfully hosted at LINXS

In September, LINXS hosted the joint Nordic Neutron Science Programme (NNSP) and the Swedish Neutron Education for Science & Society (SwedNess) fifth graduate school on neutron scattering. The collaborative school has been running since 2017, but this is the first time it is held at LINXS.

[READ AN INTERVIEW ABOUT THE GRADUATE SCHOOL](#)

Calendar

Our upcoming scientific activities within our Themes and Working Groups, and related events.

2

Nov

Antibodies in Solution: a LINXS – NIST Webinar Series

- Therapeutical monoclonal antibodies - significance for patients and evolution into the future" with Karoline Bechtold-Peters

[Register](#)

7-11

Nov

LINXS hosted event: SwedNess Research school on neutrons

[More Information](#)

7

Nov

Webinar with the NLF working group on Food Structure and Health

[Register](#)

14-

15

Nov

Integrative Pharmacology and Drug Discovery
- Structure-based Drug Design meeting

[Register](#)

29

Nov

LINXS Town Hall (online)

Save the date

30

Nov

LINXS Guest Seminar

- Paul Langan, Director General of the Institut Laue Langevin

[Register](#)

2

Dec

LINXS Guest Seminar

- LEAPS and LENS – and LINXS: how will we get more value out of all that data?’ with Robert McGreevy

[Register](#)

7

Dec

Antibodies in Solution: a LINXS – NIST Webinar Series

- Background of NIST mAb - John Schiel

[Register](#)

**17-
18**

Jan

Related Event: Nordic Workshop on Scattering from Soft Matter 2023, NSSM2023

[Register](#)

**27-
03**

Feb/Mar

New Materials- LINXS XAS-School 2023, WG2

Save the date

**12-
15**

June

Related Event: BSR14 - 14th International Conference on Biology and Synchrotron Radiation

[Register](#)

MORE LINXS ACTIVITIES



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