



Words from the Director Trevor Forsyth

Welcome back to LINXS for a busy, eventful autumn semester! We hope you all had a chance to relax over the summer and spend some time with friends and family.

We have a great programme of scientific activities coming up, including our LINXS Science Day at the end of September, which will focus on results and impacts from our two legacy themes, Imaging and Dynamics. We are also excited to see our new theme, IPDD, getting busy with workshops and other events.

We also plan to we to have many guest seminars with prominent researchers such as Helmut Schober (Director, ESS), Paul Langan (Director, ILL in Grenoble), Robert McGreevy (LENS Chairman and previous Director of ISIS in UK) 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.



We are especially pleased to share with you that we have opened a new LINXS Theme call, connected to our focus areas, hard matter, soft matter and life sciences. For the first time, LINXS welcomes Theme proposals from national and international organisations. We particularly encourage proposals that are innovative, original and expand the scope of neutron and X-ray-based research into new areas that address new research questions.

We encourage you all to disseminate the Theme call to whomever you think might have an interest.

In other news, we have said goodbye to professor Elliot Gilbert from ANSTO in Australia, who spent time at LINXS over the summer as part of the institute's guest researcher programme. He was invited by the Northern Lights on Food theme.



The summer also included a much-appreciated LINXS seminar given by D.D. Sarma, from the Indian Institute of Science (IISc), Bangalore. He was invited by Charlie Karis, Director of MAX IV, and the recording will soon be available in the LINXS' educational page.

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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](#)

22

Sep

[REGISTER](#)

LINXS Theme call information event

Welcome to ask all your questions about the LINXS Theme call!

LINXS' staff will present the details of the call and host a Q&A.



Don't miss LINXS Science Day!

The two-day event will focus on results and impacts from our two legacy themes, Imaging and Dynamics, as well as give you much insight on future developments at LINXS, not least at MAX IV and ESS!

Read about our legacy themes:

[Tackling research questions at the absolute forefront - the impact of the Dynamics theme](#)

[Creating new communities - the legacy of the Imaging theme](#)



Prof. Elliot Gilbert reflects on food, health and getting ready for ESS

During the summer, Professor Elliot Gilbert, Leader of Food Materials Science, and instrument scientist at ANSTO, spent time at LINXS as part of the institute's guest researcher



NLF conference - from milk to limoncello

The conference highlighted new research using X-ray and neutron tools related to food structures, as well as connections to the wider food industry.

programme. He was invited by the Northern Lights on Food theme.

– What is happening within the theme is really exciting.

[Read an interview with Elliot Gilbert](#)

During the coming months, the NLF platform will decide on a vision, identify all complimentary techniques available, develop and strengthen the masterclasses offered, and define a way forward.

[Read about the conference](#)



Broadening the user base of X-ray microtomography

In June, two French master students completed a unique internship in Lund.

The hope is that they can bring back knowledge of how to use X-ray microtomography and image processing to France, and thus broaden the network of future users of these technologies.

During their stay they were supervised by researcher Emanuel Larsson, member of two themes within LINXS, NLF and IPDD.

[Read about the internship](#)



Thomas Ursby highlights workshop on 2nd Time-Resolved Structural Biology

Thomas Ursby, researcher, and project manager for the MicroMAX beamline at MAX IV, and LINXS fellow, explains that this year's programme will have a slightly stronger focus on X-ray crystallography.

– We hope to have a lot discussion, and to create a space where people can ask questions, and present not fully-formed ideas. Attending the workshop should give people a sense of added value, that you cannot get from simply listening to a seminar or reading a paper.

26-
28
October

[REGISTER](#)

[Read an interview about the workshop](#)

Meet LINXS at the MAX IV and ESS
ILL user meetings



Come and chat with us at the LINXS stand during the MAX IV user meeting and the ESS ILL user meeting in early October.

[34th MAX IV User Meeting on the maxiv website](#)

[3rd ESS ILL User Meeting on indicoess website](#)

LINXS helps in search for past water on Mars

Nakhlite meteorites are igneous rocks from Mars and can provide vital information about the possibilities of past life on the red planet some 1,3 billion years ago. LINXS researchers were part of an international research team that explored the three-dimensional (3D) distribution of hydrous phases in a sample called Miller Range 03346, using neutron and x-ray tomography.

Their study has been published in Science Advances.

[**READ A SUMMARY OF THEIR FINDINGS**](#)

LINXS Annual Report 2021 Highlights

Read about last year's activities within our themes, reflections from the Scientific Advisory Board, and words from the two Directors in 2021 - Stephen Hall and Trevor Forsyth. We also highlight statistics from our scientific activities, reflect on the themes that concluded, the new themes that were launched, and share some featured news articles from last year.

[READ THE LINXS ANNUAL REPORT 2021 HIGHLIGHTS](#)

Calendar

Our upcoming scientific activities within our Themes and Working Groups, and related events. All activities are open to researchers from academia and industry.

15

Sept

CoWork Webinar

- Recent developments on Bragg ptychography,
with Peng Li

[Register](#)

28-

29

Sept

LINXS Science Day - Imaging and Dynamics

[Register](#)

29

Sept

CoWork Webinar

- Hyunjung Kim, Sogang University, South Korea

Save the date

4

Oct

Northern Lights on Food

- Industry & Tutorial workshops, WG2

[Register](#)

13

Oct

CoWork Webinar

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

[Register](#)

19

Oct

Integrative Pharmacology and Drug Discovery

- Biomedical Imaging for drug discovery/dev.
Opportunities for MAX IV

[Register](#)

**26-
28**

Oct

Integrative Structural Biology

- 2nd Time-Resolved Structural Biology workshop

[Register](#)

27

Oct

CoWork Webinar

- Chris Jacobsen, Northwestern University, USA

Save the date

**14-
15**

Nov

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

[Register](#)

29

Nov

LINXS Town Hall (online)

Save the date

2

Dec

Guest Seminar "LEAPS and LENS, and LINXS -
how will we get more value out of all that data?"
Robert McGreevy

[Register](#)

**27-
03**

Feb/Mar

New Materials
- LINXS XAS-School 2023, WG2

Save the date

14

June

BSR14 - 14th International Conference on Biology
and Synchrotron Radiation

[Register](#)

[MORE LINXS ACTIVITIES](#)



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