LINXS

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Words from the Director Trevor Forsyth

We are happy to share Highlights of the LINXS Annual Report 2022 with you. This summarises LINXS developments, Theme activities, some selected highlights and statistics related to our events and activities. The annual reporting has been an interesting process; it required us to review what actually happened and was achieved in 2022. Surprising at it may seem, it is easy to lose sight of volume of achievement in the flurry of day-to-day activity, and the report has made it clear how much LINXS has developed and grown during 2022, and the start of 2023.

We are immensely proud of what has been achieved and very grateful to those without whom it would not have been possible: the LINXS community, its external Science Advisory Board (SAB), the Board, the Management and, crucially, the LINXS Staff. You have all played a huge part of getting LINXS to where it is at this moment.

As people turn their sights to the summer period, we have some final events which will be of interest to you: a LINXS Guest Webinar on 20 June with Inês C. B. Martins (Copenhagen University) who will talk about crystalline and amorphous pharmaceuticals, and a LINXS Guest Seminar, also on 20 June, with Andrew Harrison, Director of Science at Extreme Light Infrastructure (ELI). On Wednesday 21st , just before Midsummer, we will open LINXS doors for an informal mingle and BBQ.

After summer, we will head straight into an exciting and very busy autumn at LINXS. The MAX IV/LINXS Spectroscopy Summer School will be held 21-25 Aug, and the Northern

Lights on Food (NLF) Masterclass on 28 Aug-1 Sept. In September, 18-22, we have the IPDD PhD-course and Symposium on Fragment-base Lead Discovery. We also welcome back the NNSP/SwedNess school. There are many other events taking place at LINXS - so please keep an eye on the LINXS calendar.

In this newsletter, we share some interviews and material from environments and places of strong relevance to LINXS including LUNARC and LTH. You can also read about the recent Catalysis workshop, reflections from LINXS Science Day and the New Materials XAS-school. In future newsletters, we will share reflections from the *Integrated Pharmacology and Drug Discovery (IPDD)* Theme meeting, and the recent NLF IV conference. We will also share interviews with the leaders of the three new Themes: *Cultural Heritage*, *Chemistry of Life*, and *Climate and Environment* – all of which will start in September.

We want to wish you all a very nice and relaxing summer! We are looking forward to seeing all of you back here at LINXS in August!

Stay safe and take care!

LINXS Annual Report 2022 Highlights

LINXS is happy to share the Annual Report 2022 Highlights. You can read about our activities, developments, and news. We also share summaries from our Themes, and some selected highlights and statistics.

We are very happy with our progress during the year and want to extend a big thank you to LINXS community, SAB, Board, Management and Staff.

Read LINXS Annual Report 2022 Highlights

Catalysis workshop provided insights on how synchrotron radiation can increase understanding on catalytic processes

The recent Catalysis workshop, organised in May, aimed to provide a platform for knowledge exchange, collaboration, and bridging the gap between fundamental science and industry applied research in the field of catalysis.

– We wanted to bring together academia and industry professionals to exchange ideas, expertise, and experiences. By connecting researchers from both sectors, we sought to facilitate collaborations that can translate fundamental scientific discoveries into practical applications and contribute to the development of innovative catalytic technologies, says Sara Blomberg, Associate Senior lecturer at the Department of Chemical Engineering at Lund University, and working group leader.

Read an article about the Catalysis workshop

Integrating theory and practice: XAS-school trains new users of MAX IV

In March, the XAS-school gathered 20 students from all over Europe at LINXS to train new and early users to design, plan, prepare, perform and analyse an X-ray absorption spectroscopy experiment at a synchrotron beamline.

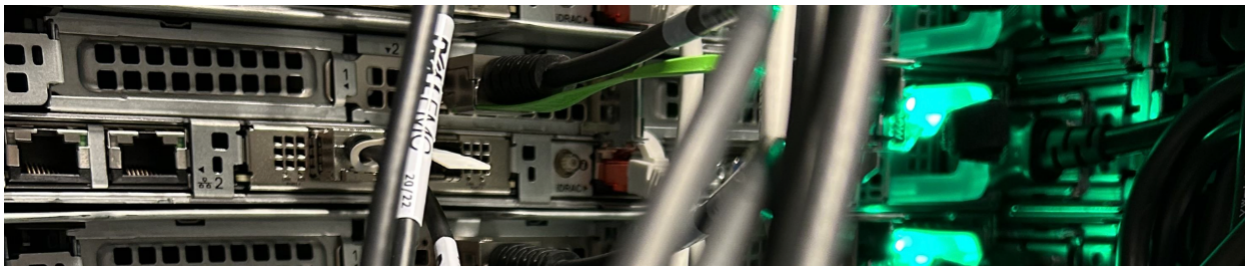
– The aim is that the students should get an understanding of what can be done, and what it means to prepare, and perform their experiment, including analysing their results. If something goes wrong, they are better equipped to recognise the problem both theoretically and practically, says Jens Uhlig, senior lecturer at Chemical Physics at Lund University, and working group leader of the Light Harvesting Processes working group.

Read an article about XAS-school

"Positive to see the Directors of ESS and MAX IV at LINXS Science Day"

Andrew Boothroyd, Professor of Physics at Oxford University, and member of the LINXS Scientific Advisory Board was a LINXS Guest Researcher between May and June.

Read about his reflections on LINXS Science Day



LUNARC can be of great use to researchers doing experiments at MAX IV

LUNARC offers resources for computation, visualisation, and storage for research within all aspects of computational science. As such the centre can be of great use to researchers conducting experiments at large-scale research facilities such as MAX IV.

– Not all data generated at MAX IV requires computational resources, but for the projects that do, we can help. Currently, MAX IV provides a limited amount of calculations, so it works well to move on to us when your experiment is finished.

Especially since the MAX IV storage system is linked with ours, says, Jonas Lindemann, LUNARC Director.

Read an interview about LUNARC

LTH Open Door welcomes LINXS Community

LTH at Lund University welcomes external companies and organisations to rent state-of-the-art equipment, facilities and networks when they are not in use, to perform their own experiments.

– We have a range of different laboratories that can satisfy a wide variety of needs. Organisations using our equipment will also have access to the knowledge and expertise of our staff, says Louise Pierce, LTH External Engagement coordinator, and coordinator of LTH Open Door.

READ A SHORT ARTICLE ABOUT LTH OPEN DOOR

Calendar

LINXS upcoming events and activities.

20
June

LINXS Guest Seminar: Pushing the limits of photon science and technology at the Extreme Light Infrastructure with Andrew Harrison

Register

20
June

LINXS and IPDD Guest Webinar with Inês C. B. Martins, University of Copenhagen

- A journey into the world of crystalline and amorphous pharmaceuticals

Register

21 June

LINXS Midsummer Open House

Register

25-30 June

Neutron Scattering for a Sustainable Society (GCR) - LINXS related event

More information

21-25 August

MAX IV/LINXS Spectroscopy Summer School

Register

21-25 August

CINEMAX VIII PhD Summer School – LINXS related event

Register

23-29 August

X-ray ptychography microsymposium at the IUCr 2023 Congress in Melbourne - LINXS Related Event

Register

28-1 Aug/Sep

Northern Lights on Food

- IV Masterclass on Food

Save the date

3-8 Sep

ECIS: 37th conference of European Colloid & Interface Society - LINXS related event

Register

6 Sep

Antibodies in Solution: a LINXS - NIST Webinar Series

- QENS/ NSE with Yun Liu, Nist, USA

Save the date

6 Sep

LINXS Theme Introduction Workshop

Save the date

9-22 Sep

NNSP/SwedNess PhD School on neutrons - LINXS partner event

Register

18-22 Sep

Integrative Pharmacology and Drug Discovery

- Structure-Based Drug Discovery Symposium and PhD course with focus on Fragment Based Lead Discovery

Register

19 Sep

Northern Lights on Food workshop, Stockholm

- Multiscale structure of food materials: how to look at a complex challenge with complementary tools

Save the date

4
Oct

Antibodies in Solution: a LINXS - NIST Webinar Series

- Colloidal Properties with Peter Schurtenberger or Anna Stradner, Lund University

Save the date

16-17
Oct

LINXS Themes Collaboration

- Workshop on Chemical Imaging with Next Generation Synchrotrons

More information coming

1
Nov

Antibodies in Solution: a LINXS - NIST Webinar Series

- Mesoscale Simulations with Roseanna Zia, WP4, Stanford University

Save the date

2
Nov

LINXS Young Researchers' Symposium on Hard Condensed Matter – X-ray and Neutron techniques

Save the date

MORE EVENTS

MORE LINXS ACTIVITIES