







Co-funded by the European Union

## Zooming into Biobased Materials

#### Agenda – Day 1

Day 1 – 25/9 afternoon				
From 11:30		Registration		
From 12:00		Lunch		
12:45	13:00	Welcome – Kim Nygård, Magnus Larsson		
13:00	13:30	<u>Key-note Industry talk – Christel Andersson, Eskil Andreasson, Tetra Pak</u>		
13:30	13:50	Unlocking Dry Forming: Using Scattering Tools to Understand Fiber Bonding, Polina Naidjonoka, Yangi AB		
13:50	14:15	In-situ X-ray analysis of cold alkali dissolution of cellulose pulps of various origins, Shun Yu, RISE AB		
14:15	14:30	ForMAX-capabilities – Kim Nygård, MAX IV		
14:30	15:00	COFFEE BREAK incl. Poster session		
15:00	15:30	Treesearch – supporting research related to forest-based materials with state-of-the art characterization tools – Daniel Söderberg, Treesearch Director, KTH		
15:30	15:50	Orientation distribution of within cross-sections of graphene-nanocellulose thin films, Andreas Fall, RISE AB		
15:50	16:00	Wrap-up Day 1 – Kim Nygård, Magnus Larsson		
16:00	16:30	Poster session		
16:30	17:30	Guided Tour @ MAXIV		
From 19:00		Workshop Dinner – <u>Restaurant Stäket,</u> Stora Södergatan 6 222 23 Lund		

### Agenda – Day 2

Day 2 – 26/9				
09:00	09:30	New rheological experiments at MAX IV - Roland Kádár, Chalmers		
09:30	10:00	From Grenoble to Lund, from rocks to paper, from km's to nm's: 17 years of lab and synchrotron x-ray experiments to study material mechanics in 2D, 3D and 4D - Stephen Hall, Lund University		
10:00	10:15	Challenge & Solution-session – Introduction - Kim Nygård, Magnus Larsson		
10:15	10:45	COFFEE BREAK		
10:45	11:45	Challenge & Solution – session		
11:45	12:00	Wrap-up – Kim Nygård, Magnus Larsson		
12:00	12:45	Lunch		
12:45	14:45	ReMade@ARI session		
12:45	13:05	Access-modes (academic, industrial) – Nadia Day		
13:05	13:20	Support via the Smart Science Cluster – Santiago Pablo Fernandez Bordín		
13:20	14:45	Proposal writing – workshop		
14:45		End of event		

#### Restaurant Stäket 19:00



#### Stora Södergatan 6, Lund



### This is **MAX IV**

- Advanced X-ray microscope
- Electron accelerator with 16 laboratories (beamlines)
- 4<sup>th</sup> generation synchrotron (first diffraction-limited light source)
- A user facility open to researchers from all over the world



# Supported by academia and industry





### Located in Science Village Scandinavia

City district with two of the world's most advanced science facilities

European Spallation Source (ESS)

MAX IV

Laboratory

Science Village

![](_page_6_Picture_3.jpeg)

Photo: COBE

![](_page_7_Picture_0.jpeg)

![](_page_8_Figure_0.jpeg)

![](_page_9_Figure_0.jpeg)

![](_page_9_Picture_1.jpeg)

![](_page_10_Picture_0.jpeg)

#### Explore, discover, learn

- Study raw materials behaviour and properties at unprecendented resolution
- Enable radical **product optimisation**
- Improve manufacturing processes
- Obtain **input and data** for computational modelling, patents, marketing, etc
- Gain new insights transform and accelerate your business

![](_page_10_Figure_7.jpeg)

## How does it work?

![](_page_11_Picture_1.jpeg)

INDUSTRIAL RELATIONS OFFICE

![](_page_12_Picture_0.jpeg)

Industry Users

![](_page_14_Picture_0.jpeg)

MAGNUS LARSSON Head of Industrial Relations

![](_page_14_Picture_2.jpeg)

![](_page_14_Picture_3.jpeg)

![](_page_14_Picture_4.jpeg)

MAGNUS FREDRIKSSON Program Manager (Alfa Laval)

![](_page_14_Picture_6.jpeg)

**CLAIRE LYONS** Project Coordinator InfraLife

#### Contact the industry office

industryoffice@maxiv.lu.se

![](_page_14_Picture_10.jpeg)

![](_page_15_Picture_0.jpeg)

# **Strategic goals** with industry

- 1. Broaden the industrial user base
- 2. Increase the industrial use
- 3. Develop MAX IV to support industrial needs
- 4. Employ a collaborative approach to industry engagement

![](_page_15_Figure_6.jpeg)

![](_page_16_Figure_1.jpeg)

✓ Free

- ✓ Apply for beamtime (2 open calls/year)
- ✓ Collaborate with an academic research partner
- $\checkmark$  Proposals ranked on scientific merit
- ✓ Publish your results

![](_page_16_Picture_7.jpeg)

- ✓ Paid
- ✓ Faster, industry-tailored access
- ✓ Full confidentiality and IP rights
- ✓ One time project or long-term framework agreement
- ✓ You own your results

![](_page_16_Picture_13.jpeg)

## Welcome to MAX IV

![](_page_17_Picture_1.jpeg)