National Academic Infrastructure for Supercomputing in Sweden

NAISS User Forum 2025 – programme

Tuesday 21 October

12:00-13:00	Welcome L U N C H
13:00-13:30	**Welcome / Introduction** Erik Lindahl, NAISS Director
13:30-14:30	**Keynote: Accelerating advanced simulations by machine learning: From models to insight** Paul Erhart, Full Professor, Condensed Matter and Materials Theory, Deputy Head of Department, Physics at Chalmers
14:30-15:00	**NAISS compute resources and storage** Björn Alling, Deputy NAISS Director
15:00-15:30	C O F F E E
15:30-16:00	**Future allocations and presentation of the National Allocations Committee Working Group (NAC-WG)** Peter Münger, Chair of NAC-WG
16:00-17:00	**USER PRESENTATIONS:** **Machine-learning-based decoders for quantum error correcting codes** Mats Granath, Dept. of Physics, University of Gothenburg **Generative AI for Lost Meanings and Unrepresented Voices** Pierluigi Cassotti, Dept. of Linguistics and Theory of Science, University of Gothenburg **Leveraging Generative AI for synthetic biology applications** Aleksej Zelezniak, Dept. of Life Sciences, Chalmers
17:00-18:00	Mingle and visit to computer hall and Alvis (AI/Machine Learning resource)
18:00-21:00	D I N N E R

Wednesday 22 October

8:30-9:30	**USER PRESENTATIONS:** **Toward Better Materials for Solar Energy through Advanced Modeling** Julia Wiktor, Dept. of Physics, Chalmers **Batch Bayesian Optimization of Attosecond X-ray Bursts** Dominika Maslarova, Dept. of Physics, Chalmers **Magnetism and spin-transport in 2D magnets from first principles theory** Biplab Sanyal, Dept. of Physics and Astronomy, Uppsala University
9:30-10:45	**Group discussion: User needs (including C O F F E E from 10:00)** Torben Rasmussen, NAISS User Support Manager Henric Zazzi, NAISS Deputy User Support Manager
10:45-11:45	**Panel discussion: NAISS in the future** NAISS Steering Committee and Erik Lindahl
11:45-12:00	**Summary and conclusion** Erik Lindahl
12:00-13:00	Closing L U N C H