

NEUTRON DAY, UPPSALA UNIVERSITY 2022

NOVEMBER 21, 15:00 – 17:00

PRELIMINARY AGENDA

15:00 Coffee and cake (please note that you need to register)	
Welcome and introduction	Professor Martin Sahlberg, Uppsala University Assoc. Professor Gunnar Karl Pálsson, Uppsala University
15:10 – 16:30 Short presentations of research	
How neutron and synchrotron sources can be used in the development of additively manufactured magnesium	Lisa Larsson, Department of Materials Science and Engineering, Biomedical Engineering
Using neutron scattering to study the role of water networks, hydrogen bonding, and protein dynamics in biological energy conversation reactions	Nicolas Croy, Department of Chemistry – Ångström, Molecular Biomimetics; Biophysical and Bioinorganic Chemistry
Water driven phase transitions in Prussian White cathode materials	Ida Nielsen, Department of Chemistry - Ångström, Structural chemistry
Archaeology Vendel period swords from Valsgårde - preliminary results from XCT/NCT scans at PSI	John Ljungqvist, Department of Archaeology and Ancient History
Ion coordination structures through total scattering measurements	Jonas Mindemark, Department of Chemistry – Ångström, Structural Chemistry
Polymer chain dynamics in high-salt-concentration polymer electrolytes	Mikael Andersson, Department of Chemistry - Ångström, Structural chemistry
Resonant enhancement of scattering from thin films	Max Wolff, Department of Physics and Astronomy, Materials Physics
Influence of hydrogen on the magnetism in NdGa	Johan Cedervall, Department of Materials and Environmental Chemistry
Plans for a compact accelerator driven neutron source for Sweden	Robert Frost, Department of Physics and Astronomy, Applied Nuclear Physics
16:30 – 17:00 Questions and discussion with refreshments	