

2015 Annual Meeting of the Swedish Neutron Scattering Society

KTH, Royal Institute of Technology, 26-28 May 2015, Stockholm, Sweden

Välkommen till KTH och Stockholm!

SNSS is an organisation open to all those who are using, or interested in the use of, neutron scattering and imaging techniques. The membership fee has been maintained at 0 SEK since the foundation of the society and there are currently about 150 members. SNSS is also affiliated to the European Neutron Scattering Association (ENSA).

One of the main tasks of SNSS is to encourage and support new users to join the Swedish neutron science community. This task has clearly become even more important lately thanks to the current development and construction of the European Spallation Source (ESS) in Lund. This opens up great opportunities for performing world leading neutron science by Swedish researchers and industry.

Thank you all for joining this meeting and hereby helping us to strengthen the Swedish neutron science community!

For SNSS and the local organizing
committee of SNSS-19

Asst. Prof. Dr. Martin Månsson
KTH Royal Institute of Technology



Our Partners:





Swedish Neutron Scattering Society

Annual Meeting of the Swedish Neutron Scattering Society SNSS-19
KTH Royal Institute of Technology, Stockholm, Sweden, 27-28 May, 2015



SOME PRACTICAL INFORMATION

KTH/ESS kick-off colloquium “Science Using Neutrons”

Time: 26/5 kl. 15:00 – 19:00
Place: KTH Main Campus Valhallavägen
Lecture room E2
Lindstedtsvägen 3, floor 3
Stockholm
<http://www.kth.se/places/room/A43:03/1337>

SNSS-19 Annual Meeting

Time: 27-28/5
Place: KTH Main Campus Valhallavägen
Lecture room K2
Teknikringen 28, ground floor (*“officially” named floor 05*)
Stockholm
<http://www.kth.se/places/room/A43:15/571>

Closest subway station for KTH is “Tekniska Högskolan”, using the “red” subway line.
(*please note that the color of the actual trains does not mean anything!*)

When you arrive at KTH, please use the map(s) on the following pages.



Contact Person

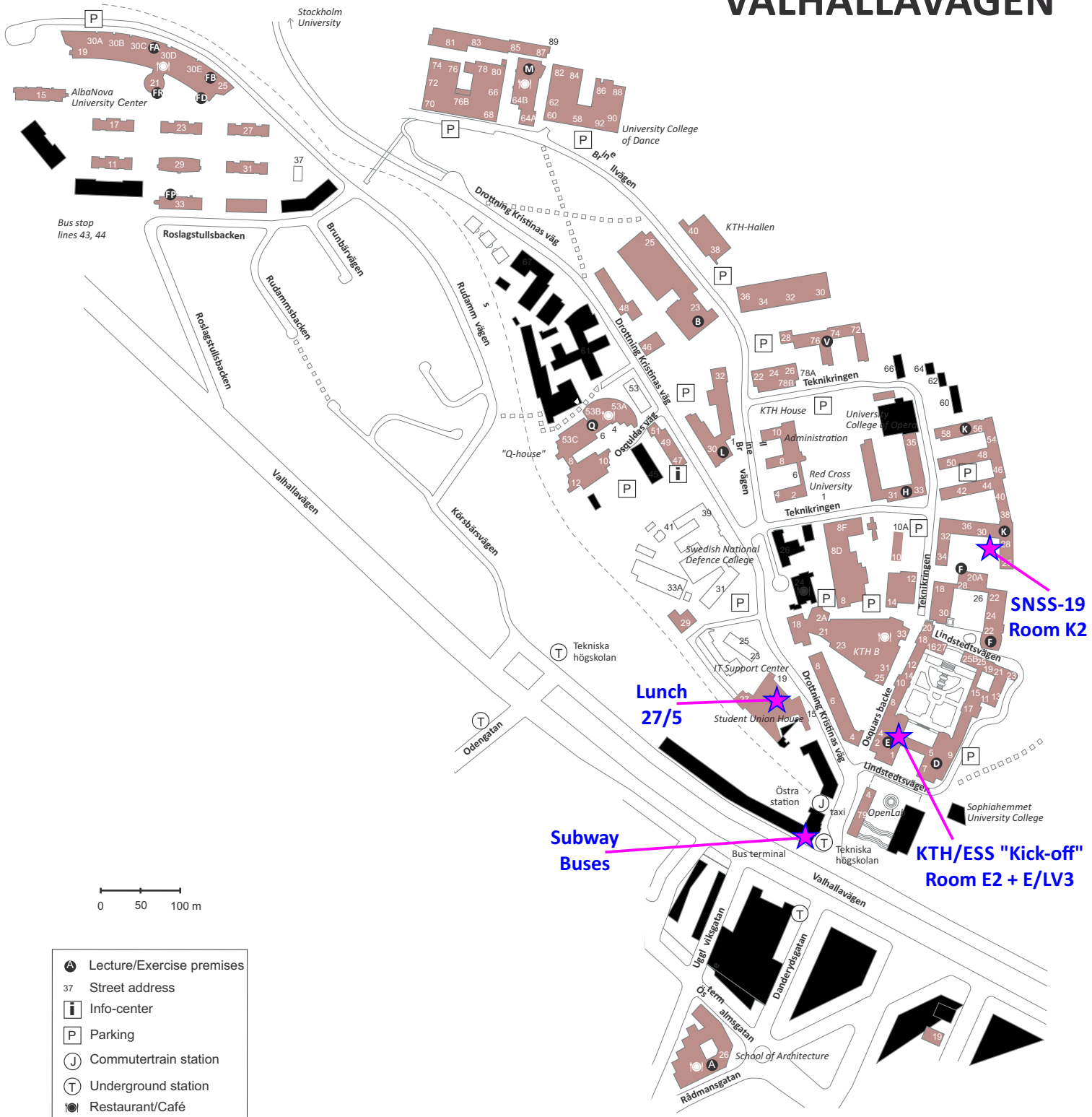
Martin Månsson, condmat@kth.se

Tel. +46-(0)8-790 4094

Mobile: +46-(0)73-765 2130



KTH MAIN CAMPUS VALHALLAVÄGEN



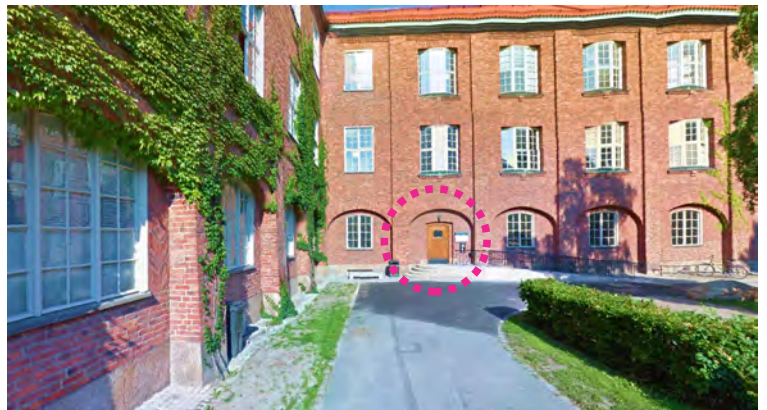
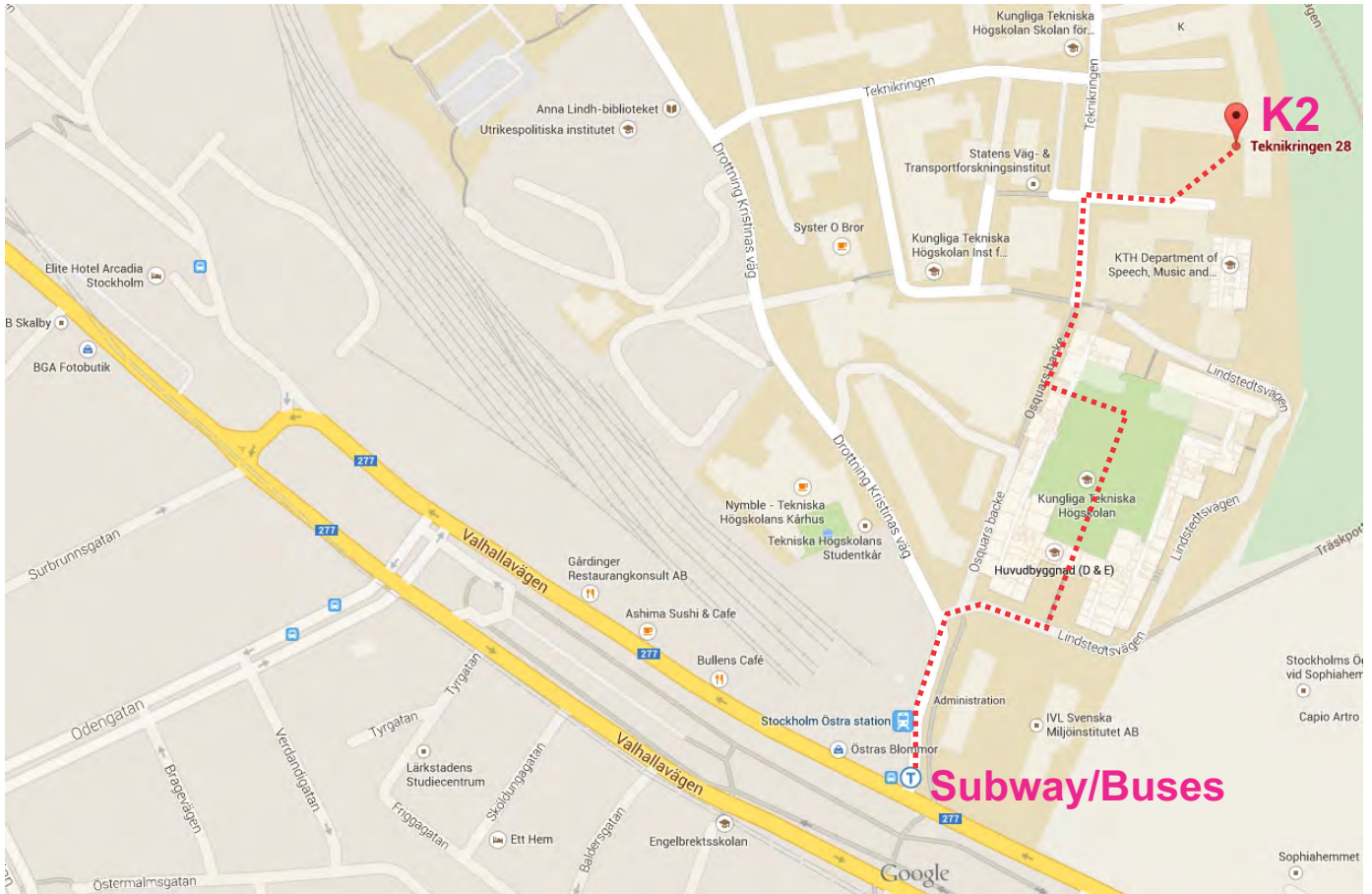


Swedish Neutron Scattering Society

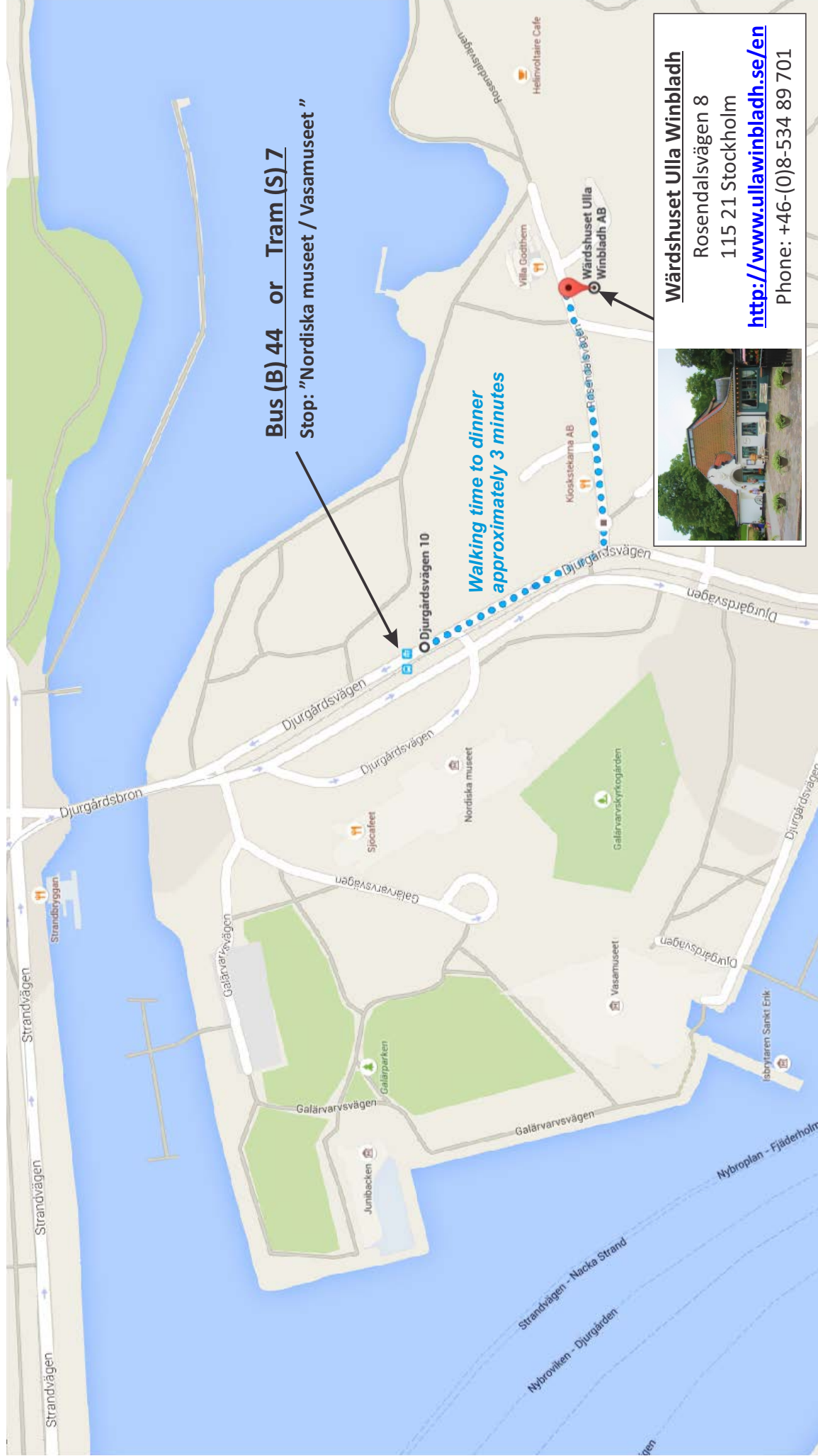
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KTH Royal Institute of Technology, Stockholm, Sweden, 27-28 May, 2015



Conference Venue: **KTH Main Campus** **Lecture Room K2** **Teknikringen 28**



”DINNER-MAP”



Science Using Neutrons

An ESS / KTH colloquium
on life, materials and energy science, kicking off
the annual meeting of the Swedish Neutron Scattering Society.

May 26th 15:00 - 19:00 at KTH, room E2

15:00 Neutrons for Green and Safe Energy Materials

Assistant Professor Martin Månsson
Royal Institute of Technology, Sweden

15:35 Hydrogen Dynamics in our Daily Life

Associate Professor Heloisa N. Bordallo
Niels Bohr Institute, University of Copenhagen, Denmark

16:10 Visions for Studies of Biomolecules at ESS

Professor Poul Nissen
Nordic-EMBL Partnership for Molecular Medicine, Aarhus
University, Denmark

17:00 - 19:00 Neutron Mingle

Please join us for light food and drinks, at KTH , Ljurgården
E/LV3.



Welcome!

No registration necessary.



More info: <http://www.snss.se/2015>



Swedish Neutron Scattering Society

Annual Meeting of the Swedish Neutron Scattering Society SNSS-19
KTH Royal Institute of Technology, Stockholm, Sweden, 27-28 May, 2015



SNSS-19 PROGRAM

Location: KTH Royal Institute of Technology Stockholm
Lecture Hall K2 Sweden
Teknikringen 28

27 May, 2015

Time	Topic	Speaker
Intro Session		
09:00 – 10:00	Basic Introduction to Neutron Science	Asst. Prof. Martin Månsson, KTH
10:00 – 10:30	Coffee Break & Registration / Poster Session	
10:30 – 10:45	SNSS Welcome and Practical Info	Asst. Prof. Martin Månsson, KTH Prof. Maths Karlsson, CTH
10:45 – 11:00	Research at KTH	Vice President Prof. Arne Johansson KTH Royal Institute of Technology Sweden
11:00 – 11:30	ESS Status & Update	Prof. Dimitri Argyriou European Spallation Source (ESS) Sweden
11:30 – 12:00	T.B.A	Swedish Research Council (VR)
12:00 – 13:30	Lunch @ THS Nymble	
Versatile Neutrons: from Swedish Steel to Soft Cells		
13:30 – 14:10	Neutrons for Imaging / Tomography and Diffraction <small>Invited Talk</small>	Dr. Anders Kaestner Paul Scherrer Institute (PSI) Switzerland
14:10 – 14:30	Neutrons for Better Roads <i>Towards understanding the breaking of bitumen emulsions using neutrons computed tomography and radiography</i>	Abdullah Khan, KTH
14:30 – 14:45	Neutrons for Stronger Steel? <i>Thermal surface free energy and stress of iron</i>	Dr. Stephan Schönecker, KTH
14:45 – 15:00	Measuring slow dynamics at ESS	Dr. Melissa Sharp, ESS
15:00 – 15:20	Contrasts in Neutron Scattering <small>Invited Talk</small> Playing with contrast variation in soft matter beyond classical studies in 4-components systems	Dr. Fabrice Cousin Laboratoire Léon Brillouin France
15:20 – 15:35	Neutrons for Life <i>Biomimetic surfaces for membrane bound protein structural and functional studies</i>	Prof. Marité Cárdenas, MAH
15:35 – 16:00	Coffee Break / Poster Session	
Neutron Science and Industry		
16:00 – 16:30	Industrious Neutrons <small>Invited Talk</small> <i>Engaging with Industry at ISIS</i>	Dr. Christopher Frost ISIS Facility, Rutherford Appleton Laboratory UK
16:30 – 17:00	Neutron & Industry @ Oak Ridge National Laboratory <small>Invited Talk</small> <i>Neutron scattering at ORNL to support materials science and engineering research</i>	Dr. Andrew Payzant SNS, Oak Ridge National Laboratory USA
17:00 – 17:30	Industry at Paul Scherrer Institute <small>Invited Talk</small>	Dr. Giorgio Travaglini Paul Scherrer Institute (PSI) Switzerland
19:00 – 22:00	Dinner @ Ulla Winblad on Djurgården	



28 May, 2015

Time	Topic	Speaker
Energy Materials		
08:30 – 09:00	Dynamical studies of hydrogen in materials for energy applications	Prof. Maths Karlsson, CTH
09:00 – 09:20	Neutrons and materials for energy A focus on clathrate hydrates <i>Invited Talk</i>	Prof. Arnaud Desmedt CNRS / University of Bordeaux France
09:20 – 09:35	Neutrons for Solar Cells <i>Structure and cation orientation in the perovskite photovoltaic methyl ammonium lead iodide between 100 and 350 K</i>	Dr. Paul F. Henry, ESS
09:35 – 09:50	Neutrons for Energy Storage <i>In operando measurements of Li-ion batteries</i>	Dr. William Brant, UU
09:50 – 10:20	Coffee Break / Poster Session	
A Neutrons view of Magnetic Materials		
10:20 – 10:50	Inelastic Neutron Scattering for Magnetism <i>Invited Talk</i>	Prof. Bella Lake Helmholtz Zentrum Berlin für Materialien & Energy Germany
10:50 – 11:30	Magnetic & Superconducting Nano-phases <i>Static and Elastic Properties of Superconducting Vortex Lattices and Skyrmion Lattices in Chiral Magnets Studied by Time Resolved Neutron Scattering</i> <i>Invited Talk</i>	Dr. Sebastian Mühlbauer Heinz Maier-Leibnitz Zentrum Garching (MLZ) Germany
11:30 – 11:45	Neutrons for Future Refrigerators <i>Magnetocaloric Hydrides of NdGa and GdGa</i>	Dr. Jonas Ångström, UU
11:45 – 13:00	Lunch / General Assembly of the SNSS members	
The Neutron Spin		
13:00 – 13:45	Polarizing the Neutron Spin <i>Longitudinal and Spherical Neutron Polarimetry: Applications and Examples</i> <i>Invited Talk</i>	Dr. Bertrand Roessli Paul Scherrer Institute (PSI) Switzerland
13:45 – 14:05	Frustrated Magnetism <i>Anisotropy-tuned magnetic order in pyrochlore iridates</i> <i>Invited Talk</i>	Dr. Virginie Simonet Institut Néel France
14:05 – 14:20	Order in Spin Ice	Prof. Patrik Henelius, KTH
14:20 – 14:40	Swedish Instrument Development <i>The New Super ADAM – Swedish neutron reflectometer at ILL</i>	Dr. Alexei Vorobiev, ILL/UU
14:40 – 14:45	Closing Remarks	Martin Månsson
14:45 – ...	Coffee Break / Poster Session	
FR – SWE		
14:45 – ...	France – Sweden Collaborations Panel discussion	



POSTER SESSION

P1

Atomic and magnetic structure and magnetocaloric properties of AlFe_2B_2

Johan Cedervall *et al.*

Uppsala University

P2

Local coordination and vibrational properties of protons in proton conducting perovskite oxides

Laura Mazzei *et al.*

Chalmers Technical University

P3

Neutrons for Green & Safe Energy Materials: Sodium Based Energy Storage

Martin Månsson *et al.*

KTH Royal Institute of Technology

P4

Random-Singlet State in Antiferromagnetic Heisenberg Spin Chain Compound $\text{BaCu}_2(\text{Si}_{0.5}\text{Ge}_{0.5})_2\text{O}_7$ Studied by Inelastic Neutron Scattering

Martin Månsson *et al.*

KTH Royal Institute of Technology

P5

Introducing High Entropy Alloys

Samrand Shafeie *et al.*

Chalmers Technical University

P6

GISANS from solid-liquid boundaries

Max Wolff *et al.*

Uppsala University