

Sunday March 15[™], 2020

12:00-14:30 Arrival and check in, light lunch

14:30-14:45 Welcome and Introduction

<u>Dganit Danino</u>, Chair <u>Kirstine Vangkilde Berner</u>, Danish Embassy, ILL and ESS representatives

14:45-16:15 The Science of Neutrons

Neutron scattering at ILL: Grand picture, challenges and recent developments <u>Mark Johnson</u>, ILL Associate Director - Head of the Science Division

The European Spallation Source: Status of the project and Future Science Andreas Schreyer, ESS Science Director

16:15-16:45 Coffee Break

16:45-18:15 The Science of Neutrons | Techniques

Introduction to neutron scattering
Neutron sources, and neutron Instruments
Optics

Charles Dewhurst & Andrew Jackson

18:30 Dinner

20:00-20:30 Why Deuteration? Making Hydrogenvisible

Zoë Fisher

20:30- Meeting the experts, drinks and discussions

Monday March 16[™], 2020

MORNING TRIP TO MASADA

Breakfast on Site

11:00-13:30 The Science of Neutrons | Techniques

Crystallography and Diffraction Mogens Christensen

Solution small-angle neutron scattering TBA

Small angle neutron scattering from bulk materials Kell Mortensen

13:30 Lunch

15:00-16:30 The Science of Neutrons | Techniques

Magnetic diffraction and polarized neutrons Andrew Wildes

Neutron spectroscopy Niels Bech Christensen

16:30-17:00 Coffee Break

17:00-18:30 Imaging, radiography, and tomography
<u>Alessandro Tengattini</u>

Residual stress diffraction and strain scanning Premek Beran

18:30 Dinner

19:30-20:15 Behind the scenes of a mega-journal: An editor view <u>Henrik Rudolf</u>, Editor-in-chief for Applied Surface Science

20:30- Drinks and Poster Session

Tuesday March 17[™], 2020

07:00-8:30 Breakfast

Commission

09:00-10:30 The Science of Neutrons | Applications

Neutrons reflectometry for soft matter and biology

Giovanna Fragneto

Neutron imaging for energy materials

Luise Theil Kuhn

Spectroscopy in solid state physics & chemistry

Monica limenez

10:30-11:00 Coffee break

11:00-13:00 The Science of Neutrons | Techniques

Neutrons for quantum and advanced materials

Pascale Deen

Neutron Instrumentation and techniques for applied materials science

Premek Beran

Matter under high pressure: What neutrons can do for you

Stefan Klotz

13:15- Lunch

14:30-16:00 The Science of Neutrons | Complementary Techniques

Super-resolution microscopy, SAXS and contrast variation SANS of field-

directed self-assembly Peter Schurtenberger

Monitoring nucleation and growth in-situ using synchrotron GIXD

Yuval Golan

16:00-16:30 Coffee break

16:30-18:30 An Israeli View on Neutrons

SARAF: A unique source of neutrons for science in Israel

Tsviki Hirsh

First neutron-based material research experiments at SARAF-I

<u>Inbal Gavish</u>

Time-of-flight measurements using fast neutrons at SARAF

Asher Shor

19:30- Departure to dinner at Kfar Hanokdim

Wednesday March 18[™], 2020

07:00-8:30 Breakfast

09:00-10:30 Neutrons in Biology

Structure, Interactions, Dynamics in Macromolecules and Large Cellular Machines and Complexes Giuseppe Zaccai, Uri Raviv, Trevor Forsyth

10:30-11:00 Coffee break

11:00-13:00 SANS in the NanoWorld

Soft Matter, Colloids, Interfaces, Bio-inspired Materials Thomas Zemb, Dganit Danino, Anna Stradner, Daniel Harries,

13:00- Lunch

14:30-16:10 Material Science with Neutrons Guy Makov, Eran Sterer, Nini Pryds

16:10-16:40 Coffee break

16:40-18:00 Novel Materials and Methods

<u>Michael Paul, Oleg Rivin, Daniel Potashnikov, Asaf Pesach,</u>

18:00 Closing Remarks

Departure