

Sunday 26 March 2017



16:00- Conference opens and registration
20:00 *St Anne's College, University of Oxford*

18:00- Welcome reception
20:00 *Ruth Deach Foyer, St Anne's College*

08:00	Registration <i>Entrance Hall (East Wing), Said College, University of Oxford</i>		
09:00	Welcome address <i>Nelson Mandela Lecture Theatre, Said College</i>		
09:20	(plenary) ISIS – the next 20 years Robert McGreevy, Science and Technology Facilities Council - ISIS, UK		
09:45	(plenary) CSNS Project Construction Shinian Fu, Neutron Science Center, Institute of High Energy Physics - CAS, China		
10:10	(plenary) SINQ - 20 years of operational experience with the Swiss spallation neutron source Bertrand Blau, PSI -Paul Scherrer Institut, Switzerland		
10:35	(plenary) Status of the Oak Ridge National Laboratory Spallation Neutron Source Ken Herwig, Oak Ridge National Laboratory, USA		
11:00	Refreshments <i>Entrance Hall (East Wing), Said College</i>		
	Instrument Design 1 <i>Rhodes Trust Lecture Theatre</i>	Targets 1 <i>Nelson Mandela Lecture Theatre</i>	Detectors 1 <i>Edmond Safra Lecture Theatre</i>
11:20	Improved nuclear forensics, radiochemical diagnostics, and nuclear astrophysics via total-cross-section measurements at the Los Alamos Neutron Science Center Paul Koehler, Los Alamos National Laboratory, USA	The ESS Target Vessel design, prototyping and inspection Fernando Sordo Balbín, Consorcio ESS-BILBAO, Spain	Realising the detector baseline for the ESS instrument suite Richard Hall-Wilton, European Spallation Source ERIC, Sweden
11:45	Progress in isotopic quantification and mapping in metals and ceramics at LANSCE Mark Bourke, LANL, USA	ISIS TS1 project Target – Design for Manufacture Leslie Jones, Science and Technology Facilities Council - ISIS, UK	The potential of boron coated straw tubes as replacement 3He detector technology at ISIS Davide Raspino, Science and Technology Facilities Council, UK
12:10	Installation status and commissioning activities of the neutron imaging instrument IMAT at ISIS Winfried Kockelmann, Science and Technology Facilities Council - Rutherford Appleton Laboratory, UK	CERN's n_TOF neutron spallation target operating experience and design of the new spallation target Marco Calviani, CERN, Switzerland	Performance of the multi-grid detector on the time-of-flight spectrometer CNCS at SNS Anton Khaplanov, European Spallation Source ERIC, Sweden
12:35	Lunch and exhibition <i>Entrance Hall (East Wing), Said College</i>		

	Instrument Design 1 <i>Rhodes Trust Lecture Theatre</i>	Targets 1 <i>Nelson Mandela Lecture Theatre</i>	Detectors 1 <i>Edmond Safra Lecture Theatre</i>
14:00	Gamma-ray background characterisation of neutron beamlines at the ISIS Neutron Spallation Source Giulia Festa, Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi, Italy	Numerical flow simulation of the neutron source SINQ of PSI Sven Jollet, PSI - Paul Scherrer Institute, Switzerland	New simulation tools and reproduction of CNCS results using Geant4 Eszter Dian, European Spallation Source ERIC, Sweden
14:25	Progress on LoKI - the broad band SANS at ESS Andrew Jackson, European Spallation Source, Sweden	Stress analysis on re-designed mercury target vessel for spallation neutron source of J-PARC Katsuhiro Haga, Japan Atomic Energy Agency, Japan	Neutron detection in a high rate environment, with reflectometry at ESS as an example Francesco Piscitelli, European Spallation Source ERIC, Sweden
14:50	Discussion	Discussion	Discussion
15:40	Refreshments <i>Entrance Hall (East Wing), Saïd College</i>		
16:00	(Plenary) IBR-2M: Five Years After Modernization Alexander Belushkin, Joint Institute for Nuclear Research, Russia <i>Nelson Mandela Lecture Theatre, Saïd College</i>		
16:25	(Plenary) Current status of J-PARC Materials and Life Sciences Facility Kenji Nakajima, J-PARC Center, Japan		
16:50	(Plenary) The European Spallation Source John Womersley, European Spallation Source, Sweden		
17:15	(Plenary) LANSCE Accelerator Update and Future Plans Robert Garnett, Los Alamos National Laboratory, USA		
17:40	Group Photo		

	Instrument Design 2 <i>Rhodes Trust Lecture Theatre</i>	Targets 2 <i>Nelson Mandela Lecture Theatre</i>	Neutronics 1 <i>Lecture Theatre 4</i>	Guides and Optics 1 <i>Edmond Safra Lecture Theatre</i>
09:00	The Engineering Diffractometer BEER at ESS Jochen Fenske, Helmholtz-Zentrum Geesthacht, Germany	Initial Implementation of Helium Gas into the SNS Mercury Target for Mitigation of Fatigue and Cavitation Damage Peter Rosenblad, Spallation Neutron Source / Oak Ridge National Laboratory, USA	The SNS moderator demonstration facility Erik Iverson, Spallation Neutron Source / Oak Ridge National Laboratory, USA	Real time neutron beam transport modelling via a heterogeneous approach Phil Bentley, European Spallation Source, Sweden
09:25	The DREAM Diffractometer at European Spallation Source Mikhail Feygenson, Jülich Centre for Neutron Science, Germany	Target Helium Purification Systems - Requirements and Solutions Per Nilsson, European Spallation Source, Sweden	Neutronics calculations for the UCN source at PSI with scattering libraries at very low < 10 K temperatures Geza Zsigmond, Paul Scherrer Institut, Switzerland	Neutron guide upgrade at SINQ Uwe Filges, Paul Scherrer Institut, Switzerland
09:50	Study of the NMX Instruments at ESS Valentina Santoro, European Spallation Source, Sweden	Design and Optimisation of the ISIS TS1 project Target Dan Wilcox, Science and Technology Facilities Council - Rutherford Appleton Laboratory, UK	Activation of the ISIS muon beamline and corresponding gamma dose rates - Simulations versus experimental results Goran Skoro, ISIS Neutron and Muon Source / Science and Technology Facilities Council, UK	Variable focusing system: A telephoto lens for neutrons Christian Schanzer, SwissNeutronics AG, Switzerland
10:15	Developing diamond anvil cell capabilities on PEARL Christopher Ridley, Science and Technology Facilities Council, UK	ESS Target Water Cooling, Purification and Radlolyis Gas Handling Håkan Carlsson, European Spallation Source, Sweden	Neutron beam extraction and tailoring useful neutrons to instruments Masatoshi Arai, European Spallation Source, Sweden	Design of the neutron guide system for the PIK reactor Peter Konik, Petersburg Nuclear Physic Institute, Russia
10:40	Refreshments <i>Entrance Hall (East Wing), Saïd College</i>			
	Instrument Design 3 <i>Rhodes Trust Lecture Theatre</i>	Targets 2 <i>Nelson Mandela Lecture Theatre</i>	Neutronics 1 <i>Lecture Theatre 4</i>	Guides and Optics 1 <i>Edmond Safra Lecture Theatre</i>
11:00	The Mushroom - a neutron spectrometer with a difference Robert Bewley, Science Technology Facilities Council -ISIS, UK	Target facility for ADS in J-PARC Shin-ichiro Meigo, JAEA/J-PARC, Japan	Basic feature of the time structure of fast neutron background at pulse spallation sources Valentina Santoro, European Spallation Source, Sweden	A selene-type design for the amor reflectometer Christine Klausner, Paul Scherrer Institut, Switzerland
11:25	Spectrometer concepts for medium flux compact neutron sources Jörg Voigt, Forschungszentrum Jülich GmbH, Germany	ISIS TS1 project Summary Stephen Gallimore, Science and Technology Facilities Council / ISIS, UK	Progress of the commissioning of a fast neutron beamline for chip irradiation Carlo Cazzaniga, STFC - Rutherford Appleton Laboratory, UK	BI-spectral beam extraction and neutron transport simulations for BEER@ESS Jan Saroun, Nuclear Physics Institute of the CAS, Czech Republic
11:50	The route towards Epithermal Neutron Station Matthew Krzystyniak, Rutherford Appleton Laboratory, UK	SNS mercury target design optimization Peter Rosenblad, Oak Ridge National Laboratory, USA	Discussion	Discussion
12:15	T-REX: Time-of-flight Reciprocal space Explorer at the ESS source Nicolò Violini, Forschungszentrum Jülich GmbH, Germany	Discussion		
12:40	Lunch and exhibition <i>Entrance Hall (East Wing), Saïd College</i>			

	Moderator 1 <i>Nelson Mandela Lecture Theatre</i>	Data analysis and computing 1 <i>Lecture Theatre 4</i>	Compact neutron sources 1 <i>Rhodes Trust Lecture Theatre</i>	Safety, compliance and radiological issues 1 <i>Edmond Safra Lecture Theatre</i>
14:00	Cryogenic cold neutron moderator (CM 201) for central direction of IBR - 2 puls reactor. Cryogenic system for complex of cold moderators Konstantin Mukhin, Joint Institute for Nuclear Research, Russia	Towards realtime data treatment and visualization from next generation facilities Jonathan Taylor, European Spallation Source, Sweden	Progress of compact neutron source activities in Japan - Japan Collaboration for Accelerator driven Neutron Sources (JCANS) status Yoshiaki Kiyonagi, Nagoya University, Japan	Radiation safety analysis for the ESS target station Linda Coney, European Spallation Source, Sweden
14:25	Talk title tbc Speaker tbc	Towards holistic data processing for the user Garrett Granroth, Oak Ridge National Laboratory, USA	The Frascati Neutron Generator Stefano Loreti, ENEA Department of Fusion and technologies for Nuclear Safety and Security, Italy	ESS personnel safety systems test stand Denis Paulic, European Spallation Source, Sweden
14:50	Implementation of a small-angle scattering model in MCNPX for very cold neutron reflector studies Franz Gallmeier, Oak Ridge National Laboratory, USA	Linking data reduction and data analysis with mantid Andres Markvardsen, Science and Technology Facilities Council - ISIS Facility, UK	The Homogeneous Thermal Neutron Source at ENEA-Frascati Antonio Pietropaolo, INFN-Frascati National Laboratories, Italy	ESS target station ventilation - Managing radiation hazards Andrea Polato, European Spallation Source, Sweden
15:15	Present fabrication status of spare moderators and reflector in J-PARC spallation neutron source MakotoTeshigawara, Japan Atomic Energy Agency, Japan	Proof-of-concept for real-time data analysis at the European Spallation Source Celine Durniak, The European Spallation Source ERIC, Denmark	Status report on accelerator and neutron activities of CPHS at Tsinghua University Xuewu Wang, Tsinghua University, China	Prognostication of the radiation resistance of various materials on the facility for radiation investigations at the IBR-2 reactor Maksim Bulavin, JINR, Russia
15:40	Refreshments <i>Entrance Hall (East Wing), Saïd College</i>			
	Moderator 1 <i>Nelson Mandela Lecture Theatre</i>	Data analysis and computing 1 <i>Lecture Theatre 4</i>	Compact neutron sources 1 <i>Rhodes Trust Lecture Theatre</i>	Safety, compliance and radiological issues 1 <i>Edmond Safra Lecture Theatre</i>
16:00	Redesign of the Lujan Center Neutron Spallation Source for Optimization of the Neutron Flux in the 0.001 – 1 MeV Energy Range Michael Mocko, Los Alamos National Laboratory, USA	Pan-European cooperation on data treatment software in SINE2020 Thomas Holm Rod, European Spallation Source ERIC, Denmark	Tailoring Instruments, moderators and the accelerator for the Hokkaido University CANS Michihiro Furusaka, Hokkaido University, Japan	ESS Environmental Impact Assessment Daniela Ene, European Spallation Source, Sweden
16:25	The neutron moderators for the European Spallation Source Luca Zanini, European Spallation Source, Sweden	SasView v4 - Data analysis for small angle scattering Andrew Jackson, European Spallation Source, Sweden	The LENS facility in 2017 David Baxter, Indiana University, USA	Off-gas processing system operations for mercury target vessel replacement at J-PARC Tetsuya Kai, Japan Atomic Energy Agency, Japan
16:50	Fast neutron emission and signal to noise ratio for novel, low-dimensional moderators Ferenc Mezei, European Spallation Source, Sweden	Implementation of bayesian data analysis tool FABADA for interpreting QENS experiments Sanghamitra Mukhopadhyay, ISIS Facility - Rutherford Appleton Laboratory, UK	Design of multi-pinhole collimator system for SANS based on CPHS neutron source Zhiyuan Wang, Tsinghua University, China	Tritium permeation from the primary helium loop for the target cooling at ESS Yong Joong Lee, European Spallation Source, Sweden
17:15	Discussion	Discussion	Discussion	Discussion
17:45	Break			
19:30 - 22:00	Conference dinner <i>Christ Church College, University of Oxford</i>			

	Moderator 2 <i>Nelson Mandela Lecture Theatre</i>	Compact neutron sources 2 <i>Rhodes Trust Lecture Theatre</i>	Detectors 2 <i>Edmond Safra Lecture Theatre</i>
09:00	Status of In-Situ Hydrogen Ortho-Para Measurement Technique Eron Kerstiens, Los Alamos National Laboratory, USA	Research opportunities with compact accelerator-driven neutron sources Chun Loong, U. Rome Tor Vergata, Italy	Detectors for second-target-station at the US spallation neutron source Jason Hodges, Oak Ridges National Laboratory, USA
09:25	Direct measurement of proportion of H2 para/ortho isomers in liquid hydrogen moderators at ISIS Giovanni Romanelli, Science and Technology Facilities Council / ISIS Facility, UK	The Jülich high brilliance neutron source project Thomas Gutberlet, Jülich Centre for Neutron Science, Germany	Development of position-sensitive scintillation neutron detector for a new protein crystal diffractometer at J-PARC MLF Tatsuya Nakamura, Japan Atomic Energy Agency, Japan
09:50	Current status of the study of the catalytic properties of IONEX® and OXISORB® for the conversion of liquid ortho- to parahydrogen Monika Hartl, European Spallation Source, Sweden	Development of a compact neutron source based on high-intensity proton beams of energy less than 20 MeV using the Geant4 simulation toolkit Ngoc Hoang Tran, Laboratoire Etudes et Applications des Réactions Nucléaires (CEA-Saclay) - Irfu/SPhN, France	Current status of scintillation detector development at ISIS Jeff Sykora, Science and Technology Facilities Council, UK
10:15	Raman Spectroscopy as an Ortho-Para Diagnostic of Liquid Hydrogen Moderators Chad Gillis, Oak Ridge National Laboratory, USA	The Legnaro Integrated Neutron Sources suite Luxa Silvestrin, University of Padova, Italy	Replacing complex detector electronics with scalable software solutions Tobias Richter, European Spallation Source ERIC, Denmark
10:40	Refreshments <i>Entrance Hall (East Wing), Saïd College</i>		
	Moderator 2 <i>Nelson Mandela Lecture Theatre</i>	Compact neutron sources 2 <i>Rhodes Trust Lecture Theatre</i>	Detectors 2 <i>Edmond Safra Lecture Theatre</i>
11:00	Spin isomers in the ISIS TS1 cryogenic hydrogen moderator Molly Probert, Science and Technology Facilities Council, UK	Performances of neutron scattering spectrometers on a compact neutron source Frederic Ott, Laboratoire Léon Brillouin CEA/CNRS, France	Development of a target imaging system for the European Spallation Source Nicolò Borghi, Technical University of Denmark (DTU), Denmark
11:25	Lifecycle of the ESS moderator and reflector plug system Marc Kickulies, European Spallation Source, Sweden	General use of low-dimensional moderators in neutron sources Luca Zanini, European Spallation Source, Sweden	Characterization of thermal neutron beam monitors Fatima Issa, European Spallation Source, Sweden
11:50	Discussion	Discussion	Discussion
12:20 - 14:00	Lunch and poster session I <i>Entrance Hall (East Wing), Saïd College</i>		
14:15	Coaches depart Saïd College for Blenheim Palace		
15:00	Tours of Blenheim Palace		
17:00	Coaches depart Blenheim Palace		
17:30	Coaches arrive at Saïd College		

	Moderator 3 <i>Nelson Mandela Lecture Theatre</i>	Instrument Design 4 <i>Rhodes Trust Lecture Theatre</i>	Shielding 1 <i>Edmond Safra Lecture Theatre</i>
09:00	Characterization of a liquid ammonia moderator Erik Iverson, SNS / Oak Ridge National Laboratory, UK	CSPEC - the cold time of flight spectrometer for the ESS Pascale Deen, European Spallation Source, Sweden	Shielding of the ESS target station connection cell Günter Muhrer, European Spallation Source, Sweden
09:25	Neutron poison burnout and effects on SNS moderator performance Franz X. Gallmeier, Oak Ridge National Laboratory, USA	The TOSCA spectrometer at ISIS: The recent guide upgrade and beyond Roberto Pinna, Science & Technology Facilities Council, UK	Development and design of the neutron beam extraction system at ESS Sara Ghatnekar Nilsson, European Spallation Source, Sweden
09:50	Demonstration of a single-crystal reflector-filter for enhancing slow neutron beams Günter Muhrer, European Spallation Source ERIC, Sweden	High resolution chopper spectrometer HRC and neutron Brillouin scattering Shinichi Itoh, High Energy Accelerator Research Organization, Japan	Neutron field spectrometry at SINQ using bonner sphere spectrometer Masako Yamada, PSI, Switzerland
10:15	Proposed design options for the next-generation Lujan Target Moderator Reflector Shield assembly Michael Mocko, Los Alamos National Laboratory, USA		Shielding beamlines in the common neutron bunker at ESS Douglas Di Julio, European Spallation Source, Sweden
10:40	Refreshments <i>Entrance Hall (East Wing), Saïd College</i>		
	Moderator 3 <i>Nelson Mandela Lecture Theatre</i>	Instrument Design 4 <i>Rhodes Trust Lecture Theatre</i>	Shielding 1 <i>Edmond Safra Lecture Theatre</i>
11:00	The neutronic characterisation of ISIS TS1 Robert Bewley, Science and Technologies Facilities Council - ISIS, UK	ToF-Backscattering at the ISIS Facility: Status and perspectives Franz Demmel, Science and Technology Facilities Council, UK	Shielding of the ESS D2T section Riccardo Bevilacqua, ESS, Sweden
11:25	Development of cold (bi-spectral) neutron moderators for the IBR-2 pulsed reactor. Current status and plans Sergey Kulikov, Joint Institute for Nuclear Research, Russia	Background optimization of the time-of-flight spectrometer NEAT Gerrit Günther, Helmholtz Zentrum Berlin, Germany	A B4C-Polyethylene based concrete for enhanced neutron shielding: Neutronic and mechanical properties Douglas Di Julio, ESS, Sweden
11:50	Developments of the Moderator & Reflector Systems for European Spallation Source Daniel Lyngh, European Spallation Source ERIC, Sweden	Ultra-high resolution neutron scattering techniques implemented by superconducting magnetic Wollaston prisms Roger Pynn, Indiana University, USA	Discussion
12:15	Discussion	Discussion	
13:00	Lunch <i>Entrance Hall (East Wing), Saïd College</i>		

	Targets 3 <i>Nelson Mandela Lecture Theatre</i>	Data analysis and computing 2 <i>Lecture Theatre 4</i>	No session
14:00	SNS Second Target Station Project Status John Galambos, Oak Ridge National Laboratory, USA	The ESS instrument integration platform ESSIIP: Prototyping the control system for neutron scattering instruments at ESS Thomas Gahl, European Spallation Source, Sweden	
14:25	ISIS Target Station One Project—An overview of the development work being undertaken to improve the Target, Moderator And Reflector TRAM support systems Daniel Coates, Science Technology Facilities Council, UK	A new design for live neutron event data visualisation for ISIS and ESS Matthew Jones, Science and Technology Facilities Council /Tessella, UK	
14:50	ESS Proton Beam Window design update Raúl Vivanco, ESS-Bilbao, Spain	Unified chopper control integration using EPICS environment and its first application at the ESS Andrés Quintanilla, European Spallation Source, Sweden	
15:15	Status update on the design and construction of the Active Cells Facility and Remote Handling Systems Magnus Gohran, European Spallation Source ERIC, Sweden	On connecting and validating simulation tools for instrument and shielding simulations including background estimates Erik Bergbäck Knudsen, DTU Physics, Denmark	
15:40	Refrehments <i>Entrance Hall (East Wing), Saïd College</i>		
	Targets 3 <i>Nelson Mandela Lecture Theatre</i>	Data analysis and computing 2 <i>Lecture Theatre 4</i>	IAC Meeting (closed/Invited) <i>Edmond Safra Lecture Theatre</i>
16:00	Design and Manufacturing of Aluminium Capsule for BLIP irradiation campaign Yong Joong Lee, European Spallation Source ERIC, Sweden	New development in the McStas Monte Carlo ray-tracing project Peter Willendrup, DTU Physics, Denmark	
16:25	Talk title tbc Speaker tbc	McStas Union components for simulating multiple scattering in complex geometries Mads Bertelsen, University of Copenhagen, Denmark	
16:50	The neutron irradiation Module at the European Spallation Source ESS Roberto Senesi, Università degli Studi di Roma Ter Vergata, Italy	Discussion	
17:15	Discussion		IAC Meeting (closed/Invited)
18:00 - 19:40	Poster session II <i>Entrance Hall (East Wing), Saïd College</i>		

	Neutronics 2 <i>Lecture Theatre 4</i>	Targets 3 <i>Nelson Mandela Lecture Theatre</i>	Instrument Design 5 <i>Rhodes Trust Lecture Theatre</i>
09:00	New neutron scattering kernels for liquid hydrogen and deuterium Rolando Granada, Argentine Atomic Energy Commission, Argentina	Beam power nonlinearity: twice the power, but not twice the neutrons? Thomas Huegle, Oak Ridge National Laboratory, USA	Talk title tbc Speaker tbc
09:25	Benchmarking the neutron inelastic scattering model in NCrystal Xiao-Xiao Cai, European Spallation Source / DTU, Denmark	Neutron Reflector using Diamond Nano Particle Kenji Mishima, KEK, Japan	The magnetic field integral in angular Larmor labeling RF coils Steven Parnell, TU Delft, Netherlands
09:50	Fast automatic angular dependent weight window generation for Monte-Carlo beamline models Stuart Ansell, European Spallation Source, Sweden	Ultimate parameters of fission based pulsed neutron sources Evgeny Shabalin, Joint Institute for Nuclear Research, Russia	
10:15	Refreshments <i>Entrance Hall (East Wing), Said College</i>		
	Neutronics 2 <i>Lecture Theatre 4</i>	Targets 3 <i>Nelson Mandela Lecture Theatre</i>	Instrument Design 5 <i>Rhodes Trust Lecture Theatre</i>
10:35	Preliminary thermal neutron cross section libraries for liquid ethane Rolando Granada, Argentine Atomic Energy Commission, Argentina	Update on progress for the ESS Target Station construction project Rikard Linander, European Spallation Source, Sweden	HERITAGE: the concept of a giant flux neutron reflectometer for the exploration of 3-d structure of liquid and solid interfaces in thin films Stefan Mattauch, JCMS, FZ-Juelich, Germany
11:00	Discussion	Discussion	Discussion
11:30	Closing remarks <i>Nelson Mandela Lecture Theatre</i>		
12:00 - 12:30	Packed Lunch <i>Entrance Hall (East Wing), Said College</i>		
12:30	Coaches depart from Said Business School		
13:30 - 14:30	(Optional) Tours of the ISIS Neutron and Muon Source		
14:45	Coaches depart from ISIS Neutron and Muon Source		
15:30	Coaches arrive at Said Business School and St Anne's College		