



March 5th - MONDAY (ROOM A)

Plenary Session I: Room A Chair: J. Carpenter

Time	Number	Title	Author
8:30 - 9:00		Opening	R. Granada
9:00 - 9:30	125	The road ahead for the European Spallation Source	C. Carlile
9:30 - 10:00	126	RA-10: A New Argentinian Multipurpose Research Reactor	H. Blaumann
10:00 - 10:30	119	SNS Facility Report	K. Beierschmitt et al.

10:30 - 11:00 **Coffee Break**

High power target and target materials I Chair: E. J. Pitcher

Time	Number	Title	Author
11:00 - 11:25	304	Status of work of the Juelich contribution to the ESS Target Station Design Update Phase	M. Butzek et al
11:25 - 11:50	305	Radionuclide Inventory Calculations for ESS Target Station	D. Ene et al
11:50 - 12:15	348	ESS-Bilbao Berilium rotating target design	S. Terrón et al

12:15 - 13:30 **Lunch**

High power target and target materials II Chair: K. Thomsen

Time	Number	Title	Author
13:30 - 13:55	307	Development of the high power mercury target and the bubbler installation	K. Haga et al
13:55 - 14:20	311	The ROTating Tungsten HELium cooled TARGET (ROTHETA) concept	C. Kharoua et al
14:20 - 14:45	312	Development of an ASME Code Case for HT-9	S.A. Maloy et al
14:45 - 15:10	318	Vision and preliminary design of the 1L target Mark-4	G. Muhrer et al

15:10 - 15:30 **Coffee Break**

High power target and target materials III Chair: M. Butzek

Time	Number	Title	Author
15:30 - 15:55	319	Validation of Computation Tools for Helium Cooling in ESS Target Station	P. Nilsson et al
15:55 - 16:20	320	Demonstration of Small Gas Bubbles for Mitigation of Cavitation Damage and Pressure Waves in Short-pulse Mercury Spallation Targets	B. W. Riemer et al

16:20 - 17:00 **Break**

Time		
17:00 - 19:30	Workshop 1: Issues surrounding tungsten at spallation sources	Y. Dai and E. Pitcher

20:00 **Dinner**

Topic 1: Facility reports
Topic 2: Accelerators
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Topic 4: Instruments
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March 5th - MONDAY (ROOM B)

(Plenary Session I: Room A)

10:30 - 11:00 **Coffee Break**

Intense-beam accelerator development I Chair: M. Seidel

Time	Number	Title	Author
11:00 - 11:25	208	Status and progress of J-PARC 3GeV RCS	M. Kinsho
11:25 - 11:50	202	The European Spallation Source Accelerator Design Update	D. McGinnis et al
11:50 - 12:15	203	The European Spallation Source RF System Design	D. McGinnis et al

12:15 - 13:30 **Lunch**

Instruments design I Chair: TBD

Time	Number	Title	Author
13:30 - 13:55	402	Conceiving a Backscattering Spectrometer at the European Spallation Source to Bridge Time and Length Scales	H.N. Bordallo et al
13:55 - 14:20	403	The robot at Stress Spec and future perspectives	H.-G. Brokmeier et al
14:20 - 14:45	405	Methods and instrumentation at Helmholtz-Zentrum Berlin - preparing for next generation pulsed neutron sources	K. Habicht
14:45 - 15:10	411	Flexible SANS for small samples and in-situ experiments at ESS	J. Fenske et al

15:10 - 15:30 **Coffee Break**

Instruments design II Chair: C. Loong

Time	Number	Title	Author
15:30 - 15:55	413	Direct geometry spectroscopy on a nearly constant frequency source	G. E. Granroth et al
15:55 - 16:20	438	Development of a Neutron Radiography Beamline at the Manuel Lujan Jr. Neutron Scattering Center	M. Mocko

16:20 - 17:00 **Break**

Time		
17:00 - 19:30	Workshop 2: Advanced scattering instrumentation	K. Habicht and K. Nakajima

20:00 **Dinner**

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March 5th - MONDAY (ROOM C)

(Plenary Session I: Room A)

10:30 - 11:00

Coffee Break

Facility Reports: status reports I

Chair: F. Mezei

Time	Number	Title	Author
11:00 - 11:25	102	Commissioning and First Operation Experience with the New High-Intensity Ultracold Neutron Source at PSI	B. Blau
11:25 - 11:50	103	The INR RAS Neutron Complex - Present Status and Prospects	A.A. Alekseev et al
11:50 - 12:15	106	Status report on the Low Energy Neutron Source	D. V. Baxter

12:15 - 13:30

Lunch

Facility Reports: new projects I

Chair: W. Wagner

Time	Number	Title	Author
13:30 - 13:55	101	ESS-Bilbao Accelerator Construction progress Review: A Machine Compliant with ESS Specifications	F.J. Bermejo et al
13:55 - 14:20	108	Model based system engineering process for ESS	R. Linander et al
14:20 - 14:45	123	University-Based Compact Neutron Sources in China	C. Loong et al
14:45 - 15:10	114	MaRIE: The Future for Nuclear and Extreme Matter Research at Los Alamos	K. Schoenberg

15:10 - 15:30

Coffee Break

Facility Reports: status reports II

Chair: F. Cantargi

Time	Number	Title	Author
15:30 - 15:55 15:55 - 16:20	111	Present status of JSNS and R&D for high power operation in J-PARC	M. Futakawa

16:20 - 17:00

Break

Time

20:00

Dinner

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March 6th - TUESDAY (ROOM A)

Plenary Session II: Room A

Chair: D. L. Price

Time	Number	Title	Author
8:30 - 9:00	120	Status of J-PARC neutron facility recovered from the Earthquake	S. Hideki
9:00 - 9:30	127	Operational Experience at ISIS	Z. Bowden
9:30 - 10:00	117	Restart of IBR-2 reactor after modernization and first experiments at its neutron beams	A.V.Belushkin
10:00 - 10:30	105	Operational status of the Los Alamos Neutron Science Center (LANSCE)	J. L. Erickson

10:30 - 11:00

Coffee Break

High power target and target materials IV

Chair: TBD

Time	Number	Title	Author
11:00 - 11:25	321	Assessment of Pressure Wave Mitigation by Small Gas Bubbles as Measured by Dynamic Strain in Short-pulse Mercury Spallation Targets	B. W. Riemer et al
11:25 - 11:50	322	Neutron Source of INR RAS, the status and the future developments	S.F. Sidorkin et al
11:50 - 12:15	324	Current work for the design concept for a rotating solid target system for ESS	P. Stronciwilk et al

12:15 - 13:30

Lunch

High power target and target materials V

Chair: B. W. Riemer

Time	Number	Title	Author
13:30 - 13:55	332	The present status and prospective of the SINQ Target Irradiation Program	Y. Dai
13:55 - 14:20	333	ESS target station concept	F. Mezei
14:20 - 14:45	338	Mo-99 Production Using Photoneutron and Spallation Neutron Sources	C.T. Kelsey IV et al
14:45 - 15:10	339	Sample Elemental Composition Evolutions in the Materials Test Station	C.T. Kelsey IV et al

15:10 - 15:30

Coffee Break

High power target and target materials VI

Chair: K. Haga

Time	Number	Title	Author
15:30 - 15:55	345	Review of materials issues for the ESS rotating helium-cooled target	E. Noah et al
15:55 - 16:20	356	The neutronic design of the ESS target	L. Zanini et al

16:20 - 17:00

Break

Time

17:00 - 19:30

Workshop 3: Target & moderator operation and development

Z. Bowden and M. Futakawa

Time

21:00

Banquet

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March 6th - TUESDAY (ROOM B)

(Plenary Session II: Room A)

10:30 - 11:00

Coffee Break

Moderators and reflectors I: Materials

Chair: Y. Kiyanagi

Time	Number	Title	Author
11:00 - 11:25	317	Properties of mesitylene confined in Silica Micro-spheres	G. Muhrer et al
11:25 - 11:50	357	Advances in Scattering Kernel Development for Light and Heavy Water at Centro Atómico Bariloche	J.I. Márquez Damian et al
11:50 - 12:15	330	Solid CH ₄ at medium power: The multi-temperature moderator	S. Ansell et al

12:15 - 13:30

Lunch

Moderators and reflectors II: New concepts

Chair: D. V. Baxter

Time	Number	Title	Author
13:30 - 13:55	341	Advanced pelletized cold moderators for the IBR-2M research reactor for condense matter research	S. Kulikov et al
13:55 - 14:20	358	New Design of a Compact Cryogenic Neutron Moderator	J.R. Granada et al
14:20 - 14:45	336	Characterization of a Directionally Enhanced Moderator	E. B. Iverson et al
14:45 - 15:10	350	A conic reflector for increasing of the flux of very cold neutrons	A. Verhoglyadov et al

15:10 - 15:30

Coffee Break

Moderators and reflectors III: Para and Ortho Hydrogen

Chair: S. Kulikov

Time	Number	Title	Author
15:30 - 15:55	315	Measurement of the Liquid Hydrogen Ortho/Para Conversion Rate at the Manuel Lujan Jr. Neutron Scattering Center	M. Mocko et al
15:55 - 16:20	337	Indications of Ortho-Hydrogen in SNS Moderators	E. B. Iverson et al

16:20 - 17:00

Break

Time

17:00 - 19:30

Workshop 4: Long pulse instrumentation

K. Andersen and K. Herwig

Time

21:00

Banquet

Topic 1: Facility reports
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March 6th - TUESDAY (ROOM C)

(Plenary Session II: Room A)

10:30 - 11:00

Coffee Break

Intense-beam accelerator development II

Chair: D. McGinnis

Time	Number	Title	Author
11:00 - 11:25	204	High Intensity Related Aspects of PSI's Proton Accelerator	M. Seidel
11:25 - 11:50	207	Development of Beam Flattening System Using Non-Linear Beam Optics at J-PARC	S. Meigo et al
11:50 - 12:15			

12:15 - 13:30

Lunch

Detectors and data collection I

Chair: R. Mayer

Time	Number	Title	Author
13:30 - 13:55	417	Development of Novel Neutron Detectors with Thin Conversion Layers	R. Kampmann et al
13:55 - 14:20	421	Neutron Detector Development for the Instruments for the ESS	A. Khaplanov et al
14:20 - 14:45	428	Prospects for neutron imaging at the ESS long pulse source	M. Strobl
14:45 - 15:10	433	2-dimensional imaging of physical information of materials by using pulsed neutron transmission analysis	Y. Kiyonagi et al

15:10 - 15:30

Coffee Break

Time

21:00

Banquet

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March 7th - WEDNESDAY (ROOM A)

Plenary Session III: Room A

Chair: Z. Bowden

Time	Number	Title	Author
8:30 - 9:00		IAEA activities	F. Mulhauser
9:00 - 9:30	116	SINQ and UCN - two high-power spallation sources operating at PSI	W. Wagner
9:30 - 10:00	122	CPHS Facility Report	C. Loong
10:00 - 10:30	121	First Five Years of OPAL, the new Australian Research Reactor	S. Kennedy

10:30 - 11:00

Coffee Break

Instruments design III

Chair: A. Wiedenmann

Time	Number	Title	Author
11:00 - 11:25	418	Perspectives for Materials Investigations at the Structured Pulse Engineering Diffractometer (SPEED)	R. Kampmann et al
11:25 - 11:50	425	Wide-wavelength band powder diffraction at the long pulse source ESS	W. Schweika et al
11:50 - 12:15	429	Status report and developments in the European instrument simulation packages; RESTRAX, VITESS and McStas	P. Willendrup et al

12:15 - 13:30

Lunch

Time

20:00

Dinner

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March 7th - WEDNESDAY (ROOM B)

(Plenary Session III: Room A)

10:30 - 11:00

Coffee Break

Target/Moderator/Reflector engineering and experiments I

Chair: M. Mocko

Time	Number	Title	Author
11:00 - 11:25	301	Optimisation of the Coupling Between the ESS Accelerator and Target	K. Batkov
11:25 - 11:50	303	Design concept for the shielding monolith and beam extraction system for ESS	M. Butzek et al
11:50 - 12:15	310	Lujan Neutron Scattering Center's TMRS Mark III Installation and Operational Successes	E. Kerstiens et al

12:15 - 13:30

Lunch

Time

20:00

Dinner

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March 7th - WEDNESDAY (ROOM C)

(Plenary Session III: Room A)

10:30 - 11:00

Coffee Break

Target/Moderator/Reflector Neutronics I

Chair: S. Ansell

Time	Number	Title	Author
11:00 - 11:25	325	Neutronic studies in support of engineering design and optimization of the ESS target system	A. Takibayev et al
11:25 - 11:50	343	Neutronics analysis for the Fusion Materials Irradiation Test Station (FMITS) at SNS	W. Lu et al

12:15 - 13:30

Lunch

Time

20:00

Dinner

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March 8th - THURSDAY (ROOM A)

Session: High power target and target materials VII

Chair: TBD

Time	Number	Title	Author
8:30 - 9:00	349	Containment as a prime design goal for neutron spallation sources	K. Thomsen et al
9:00 - 9:30	351	Operation experience with the SINQ heavy water cooling system	W. Wagner et al
9:30 - 10:00	353	First trial for post irradiation examination on the JSNS target	T. Wakui et al
10:00 - 10:30	346	Irradiation Environment in the Proposed Materials Test Station	E. J. Pitcher

10:30 - 11:00

Coffee Break

Session: Instruments design V

Chair: M. Russina

Time	Number	Title	Author
11:00 - 11:25	448	SESAME: Spin Echo Scattering Angle Measurement at LENS	A.L. Washington et al
11:25 - 11:50	449	Multiple beam SANS instrument for kinetic studies on low sample volumes	A. Wiedenmann et al
11:50 - 12:15			

12:15 - 13:30

Lunch

Session: Instruments design VI / Fundamental Physics

Chair: G. E. Granroth

Time	Number	Title	Author
13:30 - 13:55	450	Current Status of Instruments in Chinese Spallation Neutron Source	T. Zhu et al
13:55 - 14:20	452	Direct geometry time-of-flight spectrometers for ESS	J. Voigt et al
14:20 - 14:45	453	Guide- and instrument simulations for the European Spallation Source	K. Lefmann et al
14:45 - 15:10	455	Structure and dynamics of levitated liquid glass formers measured with neutron techniques	D. L. Price et al

15:10 - 15:30

Coffee Break

High power target and target materials VIII

Chair: F. Sordo

Time	Number	Title	Author
15:30 - 15:55	359	Optimization Studies of the CERN-ISOLDE Neutron Converter and Fission Target System	R. Luis et al
15:55 - 16:20	362	Assessment of the relevant problems related to the management of radioactive and toxic wastes during operation and in the phase of dismantling and decommissioning of the ESS facility	D. Ene et al

16:20 - 17:00

Break

Time

17:00 - 19:30

Poster Session: Room D

Time

20:00

Dinner

Topic 1: Facility reports
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March 8th - THURSDAY (ROOM B)

Session: Instruments design IV Chair: H.N. Bordallo

Time	Number	Title	Author
8:30 - 9:00	430	Polarization Analysis Neutron Spectrometer Project at J-PARC	T. Yokoo et al
9:00 - 9:30	442	Spectroscopy at the European Spallation Source	P. P. Deen et al
9:30 - 10:00	444	Novel Multiplexing Techniques for Advanced Instruments at Long Pulsed Spallation Source	M. Russina
10:00 - 10:30	446	On the performance of engineering diffraction at the ESS long pulse source	M. Boin et al

10:30 - 11:00 **Coffee Break**

Session: Moderators and reflectors IV: Engineering Chair: E.B. Iverson

Time	Number	Title	Author
11:00 - 11:25	347	Cryogenic liquid H2 heat pipe - possible application for ESS cold moderator	F. Plewinski et al
11:25 - 11:50	326	R&D on 2nd moderator fabrication for JSNS	M. Teshigawara et al
11:50 - 12:15	302	Cryogenic moderator system for a 5MW spallation neutron source	Y. Bessler et al

12:15 - 13:30 **Lunch**

Session: Optics Chair: S. Kennedy

Time	Number	Title	Author
13:30 - 13:55	406	Development of BL06 (VIN ROSE) beam line at J-PARC/MLF	M.Hino et al
13:55 - 14:20	434	Systematic Performance Study of Common Neutron Guide Geometries	K H Kleno et al
14:20 - 14:45	441	Design of Next Generation Magnetic Wollaston Prisms for use in Spin Echo Scattering Angle Measurement (SESAME)	P. Stonaha et al
14:45 - 15:10			

15:10 - 15:30 **Coffee Break**

Session: Moderators and reflectors V Chair: A.V. Belushkin

Time	Number	Title	Author
15:30 - 15:55	335	Measured Performance of SNS Moderators	E.B. Iverson et al
15:55 - 16:20	340	Developing an interface between MCNPX and McStas for simulation of neutron moderators	E. B. Klinkby et al

16:20 - 17:00 **Break**

Time
17:00 - 19:30 **Poster Session: Room D**

Time
20:00 **Dinner**

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March 8th - THURSDAY (ROOM C)

Session: Target/Moderator/Reflector engineering and experiments II

Chair: G. Muhrer

Time	Number	Title	Author
8:30 - 9:00	314	Beam Commissioning at J-PARC/JSNS and MUSE	S. Meigo et al
9:00 - 9:30	316	Study of Neutron Production Changes with the Proton Beam Position on Spallation Production Target	M. Mocko et al
9:30 - 10:00	323	The Neutronic Applications Laboratory for ESS-Bilbao	F. Sordo et al
10:00 - 10:30	327	Engineering design concept for a moderator/reflector system for ESS	C. Tiemann et al

10:30 - 11:00

Coffee Break

Session: Target/Moderator/Reflector engineering and experiments III

Chair: L. Zanini

Time	Number	Title	Author
11:00 - 11:25	331	A Spallation Target and Neutron Source Test Facility at LANSCE	D. V. Baxter et al
11:25 - 11:50	354	Study of the next generation inner reflector plug (IRP) at SNS	W. Lu et al
11:50 - 12:15	361	The Ultimate Spallation Source	K.H. Andersen et al

12:15 - 13:30

Lunch

16:20 - 17:00

Break

Time

17:00 - 19:30

Poster Session: Room D

Time

20:00

Dinner

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March 9th - FRIDAY (ROOM A)

Workshop Conclusions: Room A Chair: P. Ferguson

Time	Number	Title	Author
8:30 - 9:00		Workshop I: Conclusions	Y. Dai and E. Pitcher
9:00 - 9:30		Workshop II: Conclusions	K. Habicht and K. Nakajima
9:30 - 10:00		Workshop III: Conclusions	Z. Bowden and M. Futakawa
10:00 - 10:30		Workshop IV: Conclusions	K. Andersen and K. Herwig

10:30 - 11:00 **Coffee Break**

Closing Session: Room A Chair: J.R. Granada

Time	Number	Title	Author
11:00 - 12:00		Closing Session	

12:15 - 13:30 **Lunch**

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