


# The International Workshop on Pulsed Spallation Neutron Sources Agenda

November 9-13, 2009  
at Ibaraki Quantum Beam Research Center

## Nov. 9 (Mon)

9:30-12:00	<b>Opening &amp; Overview</b>		<b>Hall (2F)</b>
	<b>(chair: Futakawa)</b>		
	Opening remarks		Ikeda (J-PARC)
	Status of the SNS and source development overview		Ferguson (SNS)
	Current status of the CSNS project		Chen (CSNS)
	Current status of ESS project -linac and target station design options		Plewinski (ESS)
	JSNS project overview		Futakawa (J-PARC)
	 <b>Group Photo</b>		
13:00-15:00	<b>Moderator development</b>		Parallel session
	<b>(chair: Teshigawara)</b>		
	R&D on CSNS moderator		Yin (CSNS)
	Improvements toward the next moderators for JSNS		Teshigawara (J-PARC)
	Moderator development at the SNS		Crabtree (SNS)
	<b>Target development (Hg) (1)</b>		Parallel session
	<b>(chair: Riemer)</b>		
	<b>R&amp;D for the Separate Type Target (J-PARC)</b>		
	Overview		Haga (J-PARC)
	Target structure		Wakui (J-PARC)
	Seal performance at the additional flange		Haga (J-PARC)
	Exchange scenario of fore part		Kinoshita (J-PARC)
	Babbling equipment		Kogawa (J-PARC)
15:30-17:30	<b>Handling of radioactive materials (mercury, water, etc.)</b>		Parallel session
	<b>(chair: Plewinski)</b>		
	Behavior of spallation products in the mercury circulation system and gamma-dose rate in the hot cell		Kasugai (J-PARC)
	Process of radioactive gas products generated from mercury		Kasugai (J-PARC)
	Measurement of radioactive products in cooling water		Kasugai (J-PARC)
	SNS utility systems radiological experience		McManamy (SNS)
	<b>Target development (Hg) (2)</b>		Parallel session
	<b>(chair: Jia)</b>		
	<b>R&amp;D for the Separate Type Target (J-PARC) cont.</b>		
	Diagnosics by the laser doppler system		Teshigawara (J-PARC)
	SNS target operational experience		Riemer (SNS)
	Mercury target R&D overview		Riemer (SNS)
	SNS target updated thermal & stress analyses		Riemer (SNS)
18:00-20:00	<b>Reception at Akogigaura Club</b>		

## Nov. 10 (Tue)

9:30-12:00	<b>Target development (solid)</b> (chair: Haga)	<b>Hall (2F)</b>
	CSNS target development	Jia (CSNS)
	ESS rotating target option and the effect on the ESS target station design	Butzek (ESS)
	Rotating solid target studies for STS	McManamy (SNS)
13:00-15:00	<b>Neutronic performance</b> (chair: Maekawa)	Parallel session <b>Hall (2F)</b>
	How to compare neutronic performance	Oikawa (J-PARC)
	A plan for neutronic performance measurement with changing ortho-para hydrogen ratios at JSNS	Teshigawara (J-PARC)
	A plan for neutronic performance measurement with changing hydrogen temperature at JSNS	Ooi (J-PARC)
	Neutronic performance of the SNS target system	Ferguson (SNS)
	<b>Handling of activated components &amp; PIE</b> (chair: McManamy)	Parallel session <b>Conference Room (1F)</b>
	Current plan for the used components management	Kinoshita (J-PARC)
	SNS target PIE status and handling of highly activated components	McManamy (SNS)
15:30-17:30	<b>Hydrogen system</b> (chair: Crabtree)	Parallel session <b>Hall (2F)</b>
	CSNS cryogenic system	Wang (CSNS)
	Commissioning results of cryogenic hydrogen system at J-PARC	Tatsumoto (J-PARC)
	The SNS hydrogen system: current operations and plans	Crabtree (SNS)
	Overview of the SNS hydrogen pump: design, installation, and	Crabtree (SNS)
	<b>Proton beam on target</b> (chair: Sakamoto)	Parallel session <b>Conference Room (1F)</b>
	SNS target imaging system	McManamy (SNS)
	Proton beam on the JSNS target	Meigo (J-PARC)

## Nov. 11 (Wed)

9:30-12:00	<b>Life of aluminum alloy</b> (chair: Ferguson)	<b>Hall (2F)</b>
	Lifetime estimation and calculation of DPA and gas production on the proton beam window at JSNS of J-PARC	Meigo (J-PARC)
	Intercomparison among facilities & codes on DPA and gas production calculation	Harada (J-PARC)
	Calculation of radiation damage parameters at the SNS	Ferguson (SNS)
13:00-15:00	<b>Summary</b>	<b>Hall (2F)</b>
15:30-17:30	<b>J-PARC Site tour</b>	

## Nov. 12 (Thu)

9:30-12:00	<b>Target station design (CSNS session)</b> (chair: Takada)	Parallel session	<b>Hall (2F)</b>
	CSNS target station design		Jia (CSNS)
	CSNS TMR design and remote handling concept		He (CSNS)
	CSNS target station utility system design and interface		Li (CSNS)

Satellite Meeting on <b>Hg target development (1)</b>		Parallel session	
<b>09:30-12:05</b>			<b>Conference Room (1F)</b>
Opening remarks			Futakawa (JAEA)
Keynote Lecture			Matsumoto (Tokyo Univ.)
Session - Distributing and Measuring Bubbles and Gas curtain			
Report of the TTF test			Haga (JAEA)
Bubble tracking simulations for JSNS - TTF experiments			Riemer (SNS)
Experience with acoustical and optical diagnostics for gas bubbles and			Riemer (SNS)

13:00-17:30	<b>MLF tour</b>	Parallel session	

Satellite Meeting on <b>Hg target development (2)</b>		Parallel session	
<b>13:05-15:50</b>			<b>Conference Room (1F)</b>
Issues in estimating Bubble Distribution in mercury			Ida (JAEA)
Session - Creating Bubbles and Gas curtain			
Review of the Swirl-type Bubble Generator			Kyotoh (Tsukuba Univ.)
Recent achievement of Venturi Bubbler			Kaneko (Tsukuba Univ.)
Performance of Swirl Bubblers			Kogawa & Kinoshita (JAEA)
Bubble generators and gas wall options for SNS target development			Riemer (SNS)

Satellite Meeting on <b>Hg target development (3)</b>		Parallel session	
<b>16:05-17:05</b>			<b>Conference Room (1F)</b>
Session - Using Bubbles and Gas curtain			
Comparison of bubbles' effects in mercury and water			Ida (JAEA)
Spark experiment in water to verify the effects of bubbles			Naoe (JAEA)
Gas wall impletation for SNS target			Riemer (SNS)
Discussion and Summary			
Conclude			

## Nov. 13 (Fri)

9:30-12:00	<b>Group Discussion (1)</b>		<b>Hall (2F)</b>
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13:00-15:00	<b>Group Discussion (2)</b>		<b>Hall (2F)</b>
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15:30-17:30	<b>Group Discussion (3)</b>		<b>Hall (2F)</b>
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