



essbilbao initiative workshop

**Multi-MW Spallation Neutron Sources:
Current Challenges and Future Prospects**

programme

Monday, 16th March 2009		
08:00 - 09:00	Registration	
09:00 - 09:30	Welcome	
	Plenary Session <i>Chair: John M. Carpenter</i>	
09:30 - 13:00	09:30 - 11:00	Overview of Multi-MW Spallation Neutron Sources <i>Stuart D. Henderson (SNS)</i>
		User's point of view <i>Helmut Schober (ILL)</i>
	11:00 - 11:30	Coffee Break
	11:30 - 13:00	ESS Bilbao Machine Concept <i>Javier Bermejo (ESS-Bilbao / CSIC)</i> Charge of Parallel Sessions <i>Chris Prior (ASTeC), John R. Haines (SNS), Frank Gerigk (CERN)</i>
13:00 - 14:30	Lunch	
14:30 - 16:00	Beam Dynamics & Accelerator Components <i>Chairs: Chris Prior (ASTeC) / Frank Gerigk (CERN)</i>	
	SNS Experience <i>John D. Galambos (SNS)</i>	Target <i>Chair: John R. Haines (SNS)</i>
	Overview of Multi-MW accelerators projects <i>Alban Mosnier (CEA)</i>	Target Options for a 5 MW Spallation Source <i>Günter Bauer</i> Design Concept and Experience with Liquid Mercury Target at JSNS and SNS <i>Masatoshi Futakawa (J-Parc)</i> Concepts and R&D towards mitigation of the effect of pressure waves in mercury <i>Bernie Riemer (SNS)</i>
16:00 - 16:30	Coffee Break	
16:30 - 17:30	Session Summary	Discussion on mercury target for ESS Session Summary
17:30 - 19:00	Poster Session	



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	Beam Dynamics <i>Chair: Chris Prior (ASTeC)</i>	Accelerator Components <i>Chair: Frank Gerigk (CERN)</i>	Target <i>Chair: John R. Haines (SNS)</i>
09:00 - 11:00	Beam dynamics: Codes - availability, sophistication, limitations <i>To be confirmed</i>	Front Ends for High Intensity <i>Alan Letchford (ISIS-RAL)</i>	Design concepts of and lessons learned from the SINQ High Power Target Development Programme <i>Werner Wagner (FZ Jülich)</i>
	Beam dynamics: Simulations of high power linacs <i>To be confirmed</i>	RF structure comparison for low energy acceleration <i>Maurizio Vretenar (CERN)</i>	Concept and development work for the LANL materials test station <i>Eric Pitcher (LANL)</i>
	Low Energy Transport and space-charge compensation schemes <i>Romuald Duperrier (CEA-SACLAY)</i>	High duty cycle RF Power Couplers <i>Sergey Belomestnykh (Cornell University)</i>	Concept and Technology of the PbBi-Target for MYRRHA <i>Paul Schuurmans (SCKCEN)</i>
11:00 - 11:30	Coffee Break		
	Beam Dynamics <i>Chair: Chris Prior (ASTeC)</i>	Accelerator Components <i>Chair: Frank Gerigk (CERN)</i>	Target <i>Chair: John R. Haines (SNS)</i>
11:30 - 13:00	PSI experience with high power beam handling, activation and radiation protection <i>Mike Seidel (PSI)</i>	Spokes vs. Elliptical cavities for medium-high energy <i>Sébastien Bousson (IPN Orsay)</i>	SNS Studies towards a rotating solid target <i>Thomas McManamy (SNS)</i>
	Beam Diagnostics <i>Peter Ostroumov (ANL)</i>	Pulse forming devices for high duty factor operation <i>Richard E. Cassel (SLAC National Accelerator Lab)</i>	The CSNS rotating target concept and test programme <i>Xuejun Jia (Institute of Physics Chinese Academy of Science)</i>
		Overview of cryo-modules for proton accelerators <i>Paolo Pierini (INFN Milano)</i>	Design of the target station of ESS-2003 <i>Michael Butzek (FZ Jülich)</i>
13:00 - 13:30	Session Summary	Session Summary	Session Summary
13:30 - 15:00	Lunch		
	Beam Dynamics & Accelerator Components <i>Chairs: Chris Prior (ASTeC) / Frank Gerigk (CERN)</i>	Target <i>Chair: John R. Haines (SNS)</i>	
15:00 - 16:30	Fault Tolerance <i>Jean-Luc Biarrote (IPN Orsay)</i>	Nouvelle concepts in Target, Reflectors, Moderator integration <i>Stephen Bennington (ISIS-RAL)</i>	
		Radiation effects in high power spallation target systems (life time estimation) <i>Yong Dai (PSI)</i>	
	RF Power Distribution from Single Power Source to Multiple Loads <i>Ralph Pasquinelli (FNAL)</i>	Neutronics Investigations for SNS target station 2 <i>Phillip D. Ferguson (SNS)</i>	
		Discussion on moderator-reflector neutronics for different pulse lengths	
16:30 - 17:30	Session Summary	Session Summary	
ESS Bilbao work programme towards a 5 MW target <i>Armando Bilbao (ESS-Bilbao / IDOM)</i>			

Wednesday, 18th March 2009

	Group discussion <i>Chair: Chris Prior (ASTeC)</i>	Group discussion <i>Chair: Frank Gerigk (CERN)</i>	Group discussion <i>Chair: John R. Haines (SNS)</i>
09:00 - 11:00	Collaborative research priorities	Collaborative research priorities	Collaborative research priorities
11:00 - 12:00	Work Café: Translating ideas into business opportunities		
	Plenary Session <i>Chair: Ian S. Anderson (SNS)</i>		
12:00 - 17:00	12:00 - 13:30	Group Reports <i>Chris Prior (ASTeC), Frank Gerigk (CERN), John R. Haines (SNS)</i>	
	13:30 - 15:00	Lunch	
	15:00 - 17:00	Final Discussions, Workshop Conclusions and Wrap up <i>Ian S. Anderson (SNS)</i>	