

Tuesday January 21, 2025		FSU Workshop Website			
Welcome	FSU-NHMFL	Opening Remarks	8:00 - 8:05 AM	K. Amm	
	FSU-NHMFL	Welcome note from ASC	8:05 - 8:10 AM	D. Larbalestier	
	PPPL	Summary from the March 2023 workshop	8:10 - 8:20 AM	Y. Zhai	
	FES	Charge questions and expected outcomes	8:20 - 8:30 AM	J. King	
	PPPL	Workshop objectives, focused topics, activities since 2023 workshop	8:30 - 8:50 AM	Y. Zhai	
	ASC-NHMFL	Grand challenges of HTS conductor technologies	8:50 - 9:10 AM	D. Larbalestier	
	SNU	Grand challenges of high field HTS magnet technologies	9:10 - 9:30 AM	S. Hahn	
Coffee Break					
Session I Perspective from Private Sector					
	CFS	CFS needs from a public program	9:45 - 10:00 AM	M. Segal	
	TE	TE priorities from public program (conductor inspection & test stand)	10:00 - 10:15 AM	G. Brittles	
	TAE	TAE magnet needs (low cost, Alt. conductor options)	10:15 - 10:30 AM	G. Snitchler	
	Type One	Type One Energy magnet R&D needs	10:30 - 10:45 AM	Z. Johnson	
	Realta	HTS magnet needs/options for HAMMiR	10:45 - 11:00 AM	C. Jacobson	
	THEA	Key magnet technology needs for THEA	11:00 - 11:15 AM	J. Olatunji	
	Stellarex	HTS conductor needs for Stellarex coils	11:15 - 11:30 AM	M. Zarnstorff	
	Gauss Fusion	Gauss Fusion magnet technology and qualification program	11:30- 11:45 AM	N. Mitchell	
	Q&A - Discussion of private sector view of magnet program		11:45 - 12:15 PM		
Lunch Break					
Session II Perspective from Public Sector					
	NHMFL	Vision for NSF, DOE and NIH partnership on HTS magnet development	1:00 - 1:15 PM	K. Amm	
	PPPL	Configuration and magnet issues for spherical tokamak-based reactors	1:15 - 1:30 PM	J. Menard	
	GA	ITER CS magnets & facility Options (spare CS module as user facility?)	1:30 - 1:45 PM	N. Norausky	
	MIT-PSFC	Support CFS TFMC & CSMC with High Field Test Facilities at MIT-PSFC	1:45 - 2:00 PM	T. Golfinopoulos	
	Q&A - Discussion of public sector view of magnet program		2:00 - 2:30 PM		
Coffee Break					
	FES	Overview of FES Programs and Roadmap Development	2:45 - 3:00 PM	J.P Allain	
Session III Topics on Technical Development					
Radiation effects					
	MIT-PFSC	Radiation resistant materials - conductor and insulation	3:00 - 3:15 PM	D. Fischer	
	UKAEA	Radiation test facilities at UKAEA	3:15 - 3:30 PM	S. Wimbush	
	ORNL	Radiation needs and potential approaches to address the needs	3:30 - 3:45 PM	R. Duckworth	
Conductor Characterization					
	FSU-NHMFL	NHMFL 40 T conductor characterization (20 K, 16 T/110 mm magnet)	3:45 - 4:00 PM	D. Abraimov	
	FSU-DC Fields	Massive characterization of REBCO at NHMFL and who is interested	4:00 - 4:15 PM	J. Jaroszynski	

	PPPL	PPPL effort toward 20 K, 20 T HTS inspection capabilities	4:15 - 4:30 PM	Y. Zhai
Quench Detection and Protection				
	LBNL	Quench detection and protection at LBNL	4:30 - 4:45 PM	Prestemon/Marchevsky
	FSU-NHMFL	Quench modeling effort at MS&T for 40 T	4:45 - 5:00 PM	T. Painter
Q&A - Discussion of R&D gaps and research priorities			5:00 - 5:30 PM	
Group Dinner at the MagLab		Remark on Fusion Technology Development	6:30 - 8:00 PM	M. Ford
Wednesday January 22, 2025				
Session IV Topics on Magnet Test Facilities				
Magnet Test Facilities - Existing & Planned		what are the present and the missing test facilities?	large bore test facility	
Existing	MIT-PSFC	HTS magnet test facilities at PSFC & Irradiation relevant tests	8:00 - 8:15 AM	T. Golfinopoulos
	FSU-ASC	The ASC 160 mm bore 12 T 10 kA test facility	8:15 - 8:30 AM	D. Davis
	PPPL	Large bore high field fast ramp coil test facility	8:30 - 8:45 AM	Y. Zhai
	BNL	Cable test facilities at BNL	8:45 - 9:00 AM	M. Anerella
	PFT-NHMFL	Pulsed Field Test facility at LANL	9:00 - 9:15 AM	B. Maiorov
Future - Planned	FermiLab	HTS cable testing & conductor qualification	9:15 - 9:30 AM	S. Gourlay
Future - Planned	ORNL	A candidate testing facility at ORNL with a 13 T warm bore magnet	9:30 - 9:45 AM	B. Winn
Future - Planned	NHMFL	Large bore resistive magnet rebuild plan at MS&T	9:45 - 10:00 AM	T. Painter
Q & A - Discussions on magnet test stands			10:00 - 10:30 AM	
Coffee Break				
Session V on Conductor and Cable Supply				
	FFJ	REBCO supply and production capability at FFJ	10:45 - 11:00 AM	A. Molodyk
	SuperPower	REBCO supply and production capability	11:00 - 11:15 AM	Y. Zhang
	HTSi	Status of HTSi coated conductor production	11:15 - 11:30 AM	R. Karam
	AMPeers	Perspective on industrial manufacture of coated conductor, strand & cable	11:30 - 11:45 AM	V. Selvamanickam
	ACT	CORC Cable supply and production capability	11:45 - 12:00 PM	D. van der Laan
	Bruker EST	High field conductor supply & production capability	12:00 - 12:15 PM	J. Parrell
	SMS	Bi-2212 supply & production capability	12:15 - 12:30 PM	A. Otto
	FSU	Overview on conductor - project perspective / supply chain	12:30 - 12:45 PM	L. Cooley
Q & A - Discussions on Conductor Supply			12:45 - 1:15 PM	
Lunch Break				
Session VI Workforce Training Programs				
	Type One	Workforce Training - pipe line supply	2:00 - 2:15 PM	Z. Johnson
	FSU_FAMU	ASC education program at FSU-FAMU	2:15 - 2:30 PM	L. Cooley
	MIT-PSFC	MIT experience on superconducting magnet education	2:30 - 2:45 PM	T. Golfinopoulos
	UC Berkeley	UCB-LBNL program on s/c magnet training and education	2:45 - 3:00 PM	P. Hosemann
	UH	UH education program on ASC	3:00 - 3:15 PM	V. Selvamanickam

	PPPL	PPPL ME Program with PU; Apprntice Program on Workforce Training	3:15 - 3:30 PM	M. Ford
	ORNL - UT Knoxville	ORNL - UT education Program on fusion	3:30 - 3:45 PM	R. Duckworth
	Q & A - Discussions on Workforce & Education Program		3:45 - 4:15 PM	
	Coffee Break			
	Tour of the MagLab		4:30 - 6:00 PM	
Thursday January 23, 2025				
	Strategic directions and R&D Roadmap discussion		8:30 - 9:00 AM	
	Breakout Sessions		Focused Topical Discussions	
Private + public	in parallel	Critical R&D Gaps	9:00 - 11:00 AM	Zhai/Labalestier
	in parallel	Test Facilities	9:00 - 11:00 AM	Segal/Gourlay
	in parallel	Technology Development	9:00 - 11:00 AM	Hahn/Prestemon
	in parallel	Workforce Training	9:00 - 11:00 AM	Johnson/Duckworth
	in parallel	US Supply Chain	9:00 - 11:00 AM	Segal/Johnson
Day 3 Afternoon - Focus on outcomes and draft summary report				
		Committee member discussion on final report	12:00 - 2:00 PM	OC only