

**Agenda for NSTX-U Facility Enhancement Brainstorming Meeting  
Tuesday, February 7 & Wednesday, February 8, 2012**

<b>Tuesday, February 7, 2012 – B318, PPPI</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
1:00 PM	Introduction and Motivation of the Meeting	M. Ono
1:20	Programmatic Vision for NSTX-U	J. Menard
1:40	NSTX Upgrade Project Overview	R. Strykowski
	<b>Non-Upgrade Scopes</b>	
2:00	Power Supply Upgrades	R. Ramakrishnan
2:10	Basic Magnetics for NSTX-U Operations	S. Gerhardt
2:20	Improved Power Handling at CHI Gap	S. Gerhardt
2:30	Hardware Upgrades Related to PCS	S. Gerhardt
2:40	HHFW Antenna Enhancement	J. Hosea
2:50	<b>Energetic Particle</b>	
3:00	*AE antenna	E. Fredrickson
	<b>Particle Control / Divertor</b>	
3:10	Upper Divertor Molybdenum Tiles	H. Kugel
3:20	Active Cooling	M. Jaworski
3:30	Upward facing LiTER	R. Maingi
3:40	Divertor Cryopump and Baffle	R. Maingi
3:50	PCS feedback on divertor temperature and associated diagnostics	R. Maingi
4:00	Glow Discharge Cleaning system upgrade	V.Soukhanovskii
4:10	Divertor gas injector upgrade	V.Soukhanovskii
4:20	Supersonic Gas injector Upgrade	V.Soukhanovskii
4:30	Molecular cluster injector	R. Majeski
4:40	CT fueling	R. Raman
4:50	Replaceable divertor module	S. Zweben
5:00	Fast liquid metal loop based on RDM	H. Ji
5:10	HFS gas injection shut-off valve	C. Skinner
	Mini Li evaporator concept	C. Skinner
	<b>3-D Fields</b>	
5:20	Off-midplane coils for improved poloidal spectrum of magnetic perturbations	R. Maingi

<b>Wednesday, February 8 – B318, PPPL</b>		
<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
	<b>Lithium /Boundary Related Enhancements</b>	
1:00 PM	Near Term Lithium Options	H. Kugel
1:10	LTX-style crucible evaporators	R. Majeski
1:20	FLiLi	L. Zakharov
1:30	Li injectors for real-time Li fueling	L. Roquemore
1:40	Masking of LITER evaporators to preferentially deposit Li in specified areas	L. Roquemore
1:50	Dual band thermography in NSTX-U	J-W. Ahn
2:00	Pellet injector for ELM pacing and fueling	T.K. Gray
2:10	The fast liquid lithium shower	G. Wurden
2:20	Li CPS PFCs	R. Goldston
2:30	Monitor SOLC for machine protection	H. Takahashi
2:35	Compensate for SOLC-generated error field in machine control and equilibrium reconstruction	H. Takahashi
2:40	Drive SOLC externally for machine performance extension	H. Takahashi
2:50	Surface studies to support particle control	C. Skinner
3:00	Improved tile-to-tile alignment of divertor plasma facing components	F. Scotti
3:10	Long pulse divertor biasing	D. Battaglia
	<b>3-D Fields</b>	
3:20	Driving EHOs	R. Goldston
3:30	Distant 3-D field Coils	S. Gerhardt
3:40	Non-axisymmetric Control Coil Upgrade and other ideas by the Columbia U. Group	S. Sabbagh
3:50	Diagnostics supporting advanced global mode stabilization studies	S. Sabbagh
	<b>Start-Up / Current Drive</b>	
4:00	CHI Cap. bank upgrade to higher voltage and bank energy	R. Raman
4:10	Improvements to CHI	R. Raman
4:20	NB Upgrade For Increased Pulse Length at High Power	S. Gerhardt
4:30	Plasma gun startup	D. Battaglia
4:40	Point-Source Helicity Injection Startup in NSTX-U	R. Fonck
4:50	ECH/EBW System	J. Hosea

