

# Goals of STW 2002

November 18-21, 2002, PPPL

- Combines
  - Eighth International ST Workshop
  - US-Japan Exchange Meetings:
    - Stability and Confinement of ST
    - Theory & Simulation Study for ST
- Forum for in-depth discussion
- Research, facilities, plans, device concepts, collaboration
- Toroidal plasma science & fusion energy development
- Topical areas – see agenda

STW 2002 Agenda, November 18-21, 2002 (page 1) (v8, Nov. 17, 2002)

11/18/02, Monday, LSB	Time	Speaker	Brief title
Introductions, Welcome	8:30	Hawryluk	Welcome
	8:40	Priester	DOE comments
	8:50	Peng	Goals of STW 2002
Session I-A (Jarboe)	9:00	Raman	CHI startup demo
Startup	9:25	Redd	HIT-II current drive mixing
	9:50	Mueller	CHI in NSTX
Break	10:15		
	10:30	Browning	Instabilities associated with CHI
	10:55	Kagei	CHI MHD simulation
	11:20	Tang	CHI MHD simulation
	11:45	Tanaka	ECH startup in LATE
	12:10	Takase	Ohmic solenoid free startup in JT60-U
Lunch	12:35		
Session II (Gusev)	1:35	Pacella	Fast X-ray imaging
Special Diagnostics	2:00	Shiraiwa	EBW emission diagnostics
	2:25	Stutman	USXR measurements
	2:50	Bitter	X-ray spectroscopy
Break	3:15		
	3:30	Kubota	Reflectometers research on NSTX
	3:55	Tournianskii	Density gradients from 1D alpha lines
	4:20	Lee	Far infrared interferometry & polarimetry
	4:45	Levinton	MSE measurements on NSTX
NSTX Tour	5:10	Ono, Peng	
Adjourn	5:50		

STW 2002 Agenda, November 18-21, 2002 (page 2)

11/19/02, Tuesday, LSB	Time	Speaker	Brief title
Session III (Sykes)	8:30	Gryaznevich	Overview of MAST Results
Overview	9:05	M. Bell	Overview of NSTX Results
	9:40	Gusev	Overview of Globus-M
Break	10:15		
	10:30	Katsurai	Overview of TS-3, 4
Session IV (Kugel)	11:05	Ahn	MAST results
Boundary Physics	11:30	Nishino	NSTX divertor
	11:55	Skinner	NSTX surface conditioning
Lunch	12:20		
	1:20	Paul	NSTX impurity and boundary studies
	1:55	Majeski	CDX-U Li experiments
Session I-B (Raman)	2:20	Y. Ono	High beta merging experiments
Session V-A (Takase)	2:45	Wilson	HHFW H&CD in NSTX
Wave-Fast Ion-Plasma	3:10	Elfimov	Alfvén wave heating
Break	3:35		
	3:50	Akers	NBI H&CD in MAST
	4:15	Fredrickson	Wave driven fast ion loss
	4:40	Gorelenkov	Fast particle and convective effects
	5:05	Fu	Energetic particle driven instability simulation
	5:30	Belova	Numerical studies of energetic particle instabilities
Adjourn	5:55		
Workshop Dinner (no host)	7:00	TBD	

STW 2002 Agenda, November 18-21, 2002 (page 3)

11/20/02, Wednesday, LSB	Time	Speaker	Brief title
Session V-B (Takase)	8:30	Efthimion	EBW H&CD
	8:55	Rasmussen	EBW Technology
Session VI (Bell)	9:20	Kaye	NSTX confinement results
Transport	9:45	Bush	H-mode, ELMs in NSTX
Break	10:10		
	10:25	Bourdelle	Gyrokinetic simulation
	10:50	Zweben	Hi-speed imaging of edge turbulence
	11:15	Shaing	Magnetic island effects on confinement
Session VII (Ono)	11:40	Sykes	MAST upgrade plan
Research Plans	12:15	(Lunch)	
	1:15	Synakowski	NSTX 5-year plan
Session VIII (Katsurai)	1:50	Gryaznevich	Physics requirements for future STs
Future Concepts, Issues	2:15	M. Ono	NSST
	2:40	Sykes	STs without solenoid
	3:05	Peng	CTF
Break	3:30		
	3:45	Mitarai	Current ramp up in D-He3 ST reactors
Session IX (Fonck)	4:10	Micozzi	Ideal stability for simply connected toroidal configurations
MHD	4:35	Hayashi	Nonlinear simulations of MHD activities in ST
	5:00	Sontag	PEGASUS equilibrium and stability
	5:25	Gates	NSTX stability properties
	5:50	Park	Numerical simulations of ST instabilities
Adjourn	6:15		
Session Chairs' Dinner	7:00	Rusty Scupper	

STW 2002 Agenda, November 18-21, 2002 (page 4)

11/21/02, Thursday, B318	Time	Speaker	
Session X (Peng)	8:30	Jarboe	Session I
Summary/Recommendations	8:50	Gusev	Session II
	9:10	Sykes	Session III
	9:30	Kugel	Session IV
Break	9:50		
	10:00	Takase	Session V
	10:20	Bell	Session VI
	10:40	Ono	Session VII
	11:00	Katsurai	Session VIII
	11:20	Fonck	Session IX
	11:40	Program Committee	Concluding Remarks
Adjourn	12:00		
Preparatory Meeting of IEA IA on ST	Time	Participants	
– Session I	1:30	Program Committee	
Break	3:00		
– Session II	3:15	Program Committee	
Adjourn	4:45		