

# 10th US-PRC Magnetic Fusion Collaboration Workshop (MFCW 2020)

US: March 22-26, 2021 / PRC: March 23-27, 2021

Virtual-WebEx

<https://pls.llnl.gov/resources/events/MFCW>

8-Mar-21

## Agenda

US: Monday, March 22 / PRC: Tuesday, March 23							
	Start			Duration	Topic/Title	Speaker	Chair
	PDT	EDT	Beijing Time				
	16:15	19:15	07:15	00:45	Test WebEx connections		
<b>Session 1: Opening</b>							
	17:00	20:00	08:00	00:15	Welcome & Local arrangements	Pat Falcone/John Mandrekas	X.Q. Xu
	17:15	20:15	08:15	00:30	US-PRC Collaborations in Fusion Energy Sciences	M. Lanctot	
	17:45	20:45	08:45	00:30	Overview of fusion research activities in China	D. Luo	
	18:15	21:15	09:15	00:25	Introduction to LLNL fusion program	H. McLean, A. Friedman	
	18:40	21:40	09:40	00:15	Coffee Break		
<b>Session 2: Major Facilities Overview (20+10 minutes)</b>							R. Buttery
	18:55	21:55	09:55	00:30	NSTX-U: Current Status and near term plans	S. Kaye	
	19:25	22:25	10:25	00:30	Opportunities and challenges of EAST in near future	B. Wan	
	19:55	22:55	10:55	00:30	Opportunities for collaboration with the DIII-D program in the furtherance of common fusion goals	R. Buttery	
	20:25	23:25	11:25	00:30	SWIP Tokamak Programme and Collaborations	M. Xu	
	20:25	23:25	11:25		End of Day		
	20:25	23:25	11:25	00:30	BreakOut Discussions		
<b>US: Tuesday, March 23 / PRC: Wednesday, March 24</b>							
<b>Session 3: Major Facilities Overview &amp; Major Collaborations (20+10 minutes)</b>							B Wan
	17:00	20:00	08:00	00:30	Progress of J-TEXT on RMP and disruption mitigation physics	P. Zhu	
	17:30	20:30	08:30	00:30	Long pulse high performance scenarios and control in EAST	D. Humphreys	
	18:00	21:00	09:00	00:30	Latest advances in joint EAST/DIII-D divertor detachment experiments for fusion reactors	L. Wang	
	18:30	21:30	09:30	00:15	Coffee Break		
<b>Session 4: Major Collaborations (20+10 minutes)</b>							M. Xu
	18:45	21:45	09:45	00:30	ELM suppression by boron powder injection and comparison with lithium powder injection on EAST	R. Maingi	
	19:15	22:15	10:15	00:30	Recent progress of US-PRC magnetic fusion collaborations on diagnostics development and plasma physics studies at SWIP	W. Zhong	
<b>Session 5: New Devices (15+10 minutes each)</b>							P. Bonoli
	19:45	22:45	10:45	00:25	Progress in physics design of CFETR scenarios	J. Chen	
	20:10	23:10	11:10	00:25	The assembly and commissioning progress of HL-2M Tokamak	Q. Li	
	20:35	23:35	11:35	00:25	Investigation of the physics and control of HL-2M advanced divertor	G. Zheng	
	21:00	00:00	12:00		End of Day		
	21:00	00:00	12:00	00:30	BreakOut Discussions		
<b>US: Wednesday, March 24 / PRC: Thursday, March 25</b>							



US: Friday, March 26 / PRC: Saturday, March 27						
<b>Session 11: Short Presentations (10+2 minutes each)</b>						<b>Xiaogang Wang</b>
17:00	20:00	08:00	00:12	Nonlocal transport: What does it mean and where does it originate?	P.H. Diamond	
17:12	20:12	08:12	00:12	EAST/DIII-D Collaboration on High Poloidal Beta Scenario for A High Gain Fusion Reactor	S.Y. Ding	
17:24	20:24	08:24	00:12	Impact of EAST grassy ELMs on divertor heat flux width	Nami Li	
17:36	20:36	08:36	00:12	Passive Stabilization of Magnetic Islands in Tokamaks by RF Condensation of Lower-Hybrid Driven Currents	Allan Reiman	
17:48	20:48	08:48	00:12	A mechanism of neoclassical tearing modes onset by drift wave turbulence	H Cai	
18:00	21:00	09:00	00:12	Energetics and kinetics of defect structure in fusion metallic materials via computation in different scales	Guang-Hong Lu	
18:12	21:12	09:12	00:12	Low recycling concept of magnetic fusion for EAST and beyond	Leonid Zakharov	
18:24	21:24	09:24	00:12	Effects of drift kinetic damping and plasma shear flow on stability of resistive wall modes in CFETR	Yue Liu	
18:36	21:36	09:36	00:12	Migration Energy Barriers and Diffusion Anisotropy of Point Defects on Tungsten Surfaces	Jianan Hao	
18:48	21:48	09:48	00:12	Exploration of using neon-like xenon lines on X-ray crystal spectrometers on EAST	Bo Lyu	
19:00	22:00	10:00	00:12	Remote Third Shift EAST Operation	David Schissel	
19:12	22:12	10:12	00:15	Coffee Break		
<b>Session 12: [General Discussions]</b>						<b>H. Guo</b>
19:27	22:27	10:27	00:30	Highlights of US-PRC fusion collaborations over last four years	H. Guo/X. Duan	
19:57	22:57	10:57	01:00	Future Collaborations: Opportunities and Challenges		
20:57	23:57	11:57	00:05	Closing Remarks		
21:02	00:02	12:02		Adjourn		