USTB-Tohoku U Joint Research Laboratory Inauguration Ceremony & Workshop

November 16-18, 2016 Beijing, China

November 16,	2016 (W	ednesday)
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Pick up the delegates from Tohoku U

November 17, 2016 (Thursday)

Part 1 Inauguration and Unveiling

Time: 09:00-11:00

Location: USTB, Admin Building, Meeting Room 306

Activities
Opening speech
Short speech from MOST officer
Short speech from MOE officer
Global vision of Tohoku U by EVP T. UEKI
Research vision of Tohoku U by EVP S. ITO
USTB global vision by VP G. WANG
Research of USTB by VP D.B. SUN
Unveiling ceremony of the Plate & group photo
Short introduction of the research of OAS (by Prof. T. SHOJI)
Short introduction of the research of NCMS (by Prof. Y. JIN)

LUNCH

Time:11:15-12:50

Location: Be There Coffee

Part 2 Workshop (Parallel sessions)

Time:13:00-17:10 (30min/Talk including Q&A) Location: Techart Plaza, Meeting Room 1,2,3,4

Session I Materials performance evaluation in energy conversion system

(Chairs: Prof. Y. H. Lu, Associate Prof. Y. Takeda)

Location: Meeting Room 1

13:00-13:30	Experimental study on degradation mechanisms of Ni-based	Associate
	superalloys in steam environment beyond 700°C	Prof. Y. Takeda
		(Tohoku U)
13:30-14:00	Fretting wear behavior and mechanism of nuclear materials	Prof. Y. H. Lu
		(USTB)
14:00-14:30	Effects of dissolved hydrogen and surface conditions on the IGSCC	Dr. X. Y.
	initiation and short crack growth behavior of non-sensitized 316	Zhong
	stainless steel in simulated PWR primary water	(Tohoku U)

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14:30-15:00	The topology of three-dimensional grain boundary network and its	Dr. T. G. Liu		
	influence on stress corrosion crack propagation	(USTB)		
15:00-15:10	Coffee Break			
15:10-15:40	The effects of hydrogen on the oxidation and SCC initiation of Ni	Assistant		
	based alloys	Prof. J. Xu		
		(Tohoku U)		
15:40-16:10	Creep research on remaining life evaluation and prediction for USC	Dr. K. Yagi		
	boiler materials	(USTB)		
16:10-16:40	Effect of Cr content on the oxidation behavior of Ni-Cr model alloys	Dr. F. Hamdani		
	in superheated steam at 700°C	(Tohoku U)		
16:40-17:10	Effect of oxygen content of steam on the steam oxidation behavior	Dr. K.		
	of boiler tube materials	Nakagawa		
		(USTB)		
17:10-18:00	Poster session			
Session II S	urface science and corrosion			
(Chairs: Prof.	Y. Jin, Assistant Prof. H. Abe)			
Location: Me	eting Room 2			
13:00-13:30	Locality and causality in corrosion	Prof. T. Shoji		
		(Tohoku U)		
13:30-14:00	FEM modeling of micro-galvanic corrosion induced by	Prof. Y. Jin		
	intermetallic particle in Al alloys	(USTB)		
14:00-14:30	Research activities in degradation science and plant Life	Assistant		
	management laboratory	Prof. H. Abe		
		(Tohoku U)		
14:30-15:00	Structure of passive films on titanium studied with synchrotron	Prof. D. B. Sun		
	radiation	(USTB)		
15:00-15:10	Coffee Break			
15:10-15:40	The development of a Large-Scale Multiphase Flow Loop for	Dr. Y. F. Chen		
	Corrosion Research in Oil & Gas Field	(USTB)		
15:40-16:10	Surface analytical facilities in new industry creation hatchery	Mr. M. Tanno		
	center (NICHe), Tohoku University	(Tohoku U)		
16:10-16:40	A study on high-throughput materials corrosion experiment	Associate		
	platform	Prof. P. Shi		
		(USTB)		
16:40-17:10	Surface modification of Ti6Al4V alloy by SMAT and MAO	Associate		
	treatment	Prof. L. Wen		
		(USTB)		
17:10-18:00	Poster session			
Session III Material-performance modeling, simulation and experiments				
(Chairs: Prof. L. B. Wang, Prof. Y. Chen)				
Location: Meeting Room 3				
13:00-13:30	First-principles modeling of defects behavior in nuclear fuels	Prof. Y. Chen		
		(Tohoku U)		
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12.20 14.00	Devenostives and status for design of stane based sixil infrastructure	Drof I D
13:30-14:00	Perspectives and status for design of stone-based civil infrastructure	Prof. L. B.
	materials	Wang
44.00.44.20	A construction of the cons	(USTB)
14:00-14:30	A computational study on early stage oxidation initiation	Associate
	mechanism of Ni-Cr (111), (110) and (100) surfaces	Prof. N. K. Das
11 00 15 00		(Tohoku U)
14:30-15:00	First-principles modeling of layer-defect of Al ₂ O ₃ surface eroded by	Dr. C. H.
	H₂O and Cl¯	Zhang
		(USTB)
15:00-15:10	Coffee Break	
15:10-15:40	Recent studies of nondestructive testing and evaluation in the	Associate
	Graduate School of Engineering, Tohoku University	Prof. N. Yusa
		(Tohoku U)
15:40-16:10	Effects of length on strength and fatigue of longitudinal elements	Associate
		Prof. C.M. Lan
		(USTB)
16:10-16:40	A coupled PFM-DEM approach to investigate tire-pavement friction	Associate
		Prof. Y. Hou
		(USTB)
16:40-17:10	Performance degradation and remaining useful life prediction	Associate
	method based on functional principal component analysis	Prof. L. J.
		Zhang
		(USTB)
17:10-17:40	Interfacial behavior between asphalt binder and mineral aggregate	Dr. M. Guo
		(USTB)
17:40-18:00	Poster session	
	Hydrogen induced degradation & Fatigue	
1 -	ciate Prof. X. C. Ren, Prof. E. Akiyama)	
	eting Room 4	
13:00-13:30	Damage evaluation of structural materials by hydrogen thermal	Prof. S.
	desorption analysis	Komazaki
		(Kagoshima U,
		invited by
		Tohoku U)
13:30-14:00	Corrosion induced fatigue failure of railway wheels and safety	Associate
	evaluation of wheels with corrosion pitting	Prof. X. C. REN
		(USTB)
14:00-14:30	Evaluation of hydrogen embrittlement property of high strength	Prof. E.
	steels	Akiyama
		(Tohoku U)
14:30-15:00	Characterization of microstructures of dissimilar weld joint and its	Dr. X. F. Ding
	corrosion properties in high temperature water	(USTB)
15:00-15:30	Preparation of high purity transition metals	Assistant
		Prof. M.

		Uchikoshi		
		(Tohoku U)		
15:30-15:40	Coffee Break			
After	the coffee break, attendees of Session IV can join the other 3 se	ssions		
BANQUET (Buffet)				
Time: 18:30-	20:00			
Location: Vi	sion Hotel			
November 18, 2016 (Friday)				
Part 1 Close	e meeting			
Time: 9:00-	11:30			
Location: T	echart Plaza, Meeting Room 5			
(Summer Palace visiting for people who will not join the close meeting*)				
9:00-10:00	General session & Summary of each session			
	(Session chairs are invited to summarize each session, and propose the			
	future plan of each group.)			
10:00-11:30	★ Future direction and road map			
	★ Proposal of road map and discussion			
LUNCH				
Time:11:30-1				
	campus visit			
	leet at South Gate of USTB			
13:00-17:30	Changping new campus visit			
DINNER				
Time: 18:00-20:00				
Location: USTB Conference Centre				

^{*} Everyone is welcome to join the close meeting, depending on your choice. If you do not attend the meeting, USTB will arrange an interesting tour to the Summer Palace.

Contact Information

Prof. Ying Jin (Mobile:17801050028, E-mail:yjin@ustb.edu.cn)

Dr. Hai Chang (Mobile:18610719543, E-mail:hchang@ustb.edu.cn)

Ms. Yue-xin Jiang (Mobile:13651192129, E-mail:1124425653@qq.com)

Asso.Prof. Hai-cheng Wang (Mobile:15001399682, E-mail:hcwang@mater.ustb.edu.cn)