The 2nd Japan–China Joint Workshop on Positron Science (JWPS2013)

		December									
Time	20th	21st		22nd Walk to the site from SAKURAKAN		23rd					
7:30				walk to the sit	e from SAKURAKAN						
8:30		(Chair: K	. Ito)								
		Onening re	emarks								
		Opening remarks		(Chair: C. He)		(Chair: N. Oshima)					
9:00		Japan	. Fujinami (Chiba)	Plenary-3 Japan	T. Hirade (JAEA)	Invited-III1 China	S. Jin				
9:30		Plenary-2 China	C. He Wuhan)	Invited-II1 Japan	Ki. Sato	Invited-III2 Japan	H. Tsuchida				
10:00		Invited-I1 China	B. Ye	Invited-II2 China	Z. Chen	Invited-III3 China	S. Fan				
10:30		Break (Chair: T. Oka)		Break		Invited-III4					
				(Chair: Ki. Sato)		Japan	A. Yabuuchi				
11:00		Invited-I2 Japan A	A. Kinomura	Invited-II3 Japan	T. Oka		Break				
11.00		Japan A.	Japan A. KIIIOIIIuIa		I. Oka	(Chair: W. Zhou)					
		Invited-I3		Invited-II4		Oral-III0	H. Li				
11:30		China V	V. Zhang	China	J. Yang		11. LI				
12:00		Invited-I4 Japan M.	Yamawaki	Oral-II1	W. Zhou	Invited-III5 Japan	K. Shibuya				
				Oral-II2	H. Hagihara	Oral-III1	Y. Sano				
12:30						Summary talk					
				Lunch		Closing					
13:00 Lunch											
40.00		(Chair: B. O'Rourke)									
13:30		Invited-I5 Japan 	K. Wada	photo							
14:00		Invited-I6 Japan .	Mochizuki			Lab tour (AIST)					
14:30		Invited-I7 Japan M .	Maekawa				Lab tour (AlST)				
15:00		Invited-I8 Japan K .	Michishio								
15:30		(Chair: Z. (Break (Chair: Z. Chen)		Lab tour						
16:00		Invited-I9 Japan B.	O'Rourke	(KEK)							
16:30		Invited-I10 Japan	Ko. Sato								
17:00	Registration and Welcome (SAKURA	Invited-I11 Japan	H. Kato								
17:30	(SAKUKA KAN)										
17.30		Poster session (with Food & Drink)		BUS TO RESTURANT Dinner at Sansuitei							
18:00	Welcome										
20:00				BUS TO Tsukuba st. & AIST							
21.00				D00 10 18	Junusu St. & Alo I						

Session 1

(8:40-10:30, Dec. 21st) Chair: K. Ito AIST, Japan

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- 9:00 P-1: **Masanori Fujinami** Chiba Univ., Japan Positron probe microanalyzer for the deformed iron and stainless steel
- 9:30 P-2: **Chunqing He** Wuhan University, China Issues on positron annihilation studies of mesoporous silica films
- 10:00 I-I1: **Bangjiao Ye** University of Science and Technology of China, China *Positron annihilation detecting arts and its development*

Break

Session 2

(10:50–12:20, Dec. 21st)
Chair: T. Oka Tohoku Univ., Japan

- 10:50 I-I2: **Atsushi Kinomura** AIST, Japan Dual beam analysis system for in-situ positron annihilation spectroscopy of ion-irradiation induced defects
- 11:20 I-I3: **Wenshuai Zhang** University of Science and Technology of China, China Assessment of calculation methods of positron lifetime
- 11:50 I-I4: **Masato Yamawaki** AIST, Japan

 Data processing method on positron annihilation lifetime measurement

Lunch

Session 3

(13:30–15:30, Dec. 21st)
Chair: B. O'Rourke AIST, Japan

- 13:30 I-I5: **Ken Wada****Installation of a reflection high-energy positron diffraction (RHEPD) experiment station to the Slow Positron Facility at KEK
- 14:00 I-I6: **Izumi Mochizuki** KEK, Japan

 Total reflection high-energy positron diffraction rocking-curve analysis for the topmost surface structure determination

- 14:30 I-I7: **Masaki Maekawa** JAEA, Japan

 Development of spin-polarized slow positron beam for evaluation of spintronics materials
- 15:00 I-I8: **Koji Michishio** TUS, Japan

 Development of an energy-tunable positronium beam employing the photodetachment of positronium negative ions

Break

Session 4

(15:50–17:20, Dec. 21st) Chair: Z. Chen WIT, China

- 15:50 I-I9: **Brian O'Rourke** AIST, Japan

 Development of the next generation, accelerator based, slow positron facility at AIST
- 16:20 I-I10: **Koichi Sato** Kyoto Univ., Japan *Positron beam facility at Kyoto University Reactor*
- 16:50 I-I11: **Hidetoshi Kato** AIST, Japan *X-ray source using coniferous carbon nano-structure*

Poster Session (17:30–19:45, Dec. 21st)

Session 5

(9:00-10:30, Dec. 22nd)
Chair: C. He Wuhan Univ., China

- 9:00 P-3: **Tetsuya Hirade** JAEA, Japan Positronium bubble oscillation in room temperature ionic liquids
- 9:30 I-II1: **Kiminori Sato** Tokyo Gakugei Univ., Japan Application of layered nanoparticles to environmental materials
- 10:00 I-II2: **Zhe Chen** Wuhan Institute of Technology, China Study of the hydrophobicity recovery on polymer surface after plasma modification

Break

Session 6

(10:50–12:30, Dec. 22nd)
Chair: K. Sato Tokyo Gakugei Univ., Japan

- 10:50 I-II3: **Toshitaka Oka** Tohoku Univ., Japan Free volume study of the functionalized fluorinated polymer
- 11:20 I-II4: **Jing Yang** Institute of High Energy Physics, Chinese Academy of Sciences, China *Gamma irradiation effect on positron annihilation mechanism in polymers*
- 11:50 O-II1: **Wei Zhou** China University of Geosciences, China

 Effect of heat treatment on the crystallization for polyvinyl alcohol nano-films by positron annihilation lifetime spectroscope
- 12:10 O-II2: **Hideaki Hagihara** AIST, Japan Nanoscopic structural study for cellulose triacetate hollow fiber membranes by slow positron annihilation techniques

Session 7

(9:00-11:00, Dec. 23rd)
Chair: N. Oshima AIST, Japan

- 9:00 I-III1: **Shuoxue Jin** Institute of High Energy Physics, Chinese Academy of Sciences, China Positron annihilation spectroscopy on FeCu alloy after hydrogen ion irradiation at elevated temperature
- 9:30 I-III2: **Hidetsugu Tsuchida** Kyoto Univ., Japan In-situ probing of radiation-induced defects under irradiation with positrons
- 10:00 I-III3: **Shaojuan Fan** University of Science and Technology of China, China Electron correlation and magnetism ordering contribution to the band gap of hexagonal NiS
- 10:30 I-III4: **Atsushi Yabuuchi** AIST, Japan Positron microscopy study of stress corrosion cracking in stainless steels for nuclear applications

Break

Session 8

(11:20-12:30, Dec. 23rd)

Chair: W. Zhou China University of Geosciences, China

- 11:20 O-III0: **Hui Li**Spin polarization on ferromagnets surface observed by a spin-polarized positron beam
- 11:40 I-III5: **Kengo Shibuya** Univ. Tokyo, Japan *Ps spin conversion during Ps-Xe collisions*
- 12:10 O-III1: **Yousuke Sano** Tohoku Univ., Japan *AMOC measurement of positron annihilation in Ar gas*
- 12:30 Summary talk
- 12:40 Closing

Poster Session

(17:30-19:45, Dec. 21st)

- Po-1: **Atsushi Yabuuchi** AIST, Japan Direct electron bombardment annealing of lattice-like tungsten moderator
- Po-2: **Kasumi Arai** Chiba Univ., Japan Positron probe microanalyzer for hydrogen induced vacancy distribution in austenite stainless steel
- Po-3: **Fuminori Hori** Osaka Pref. Univ., Japan Application to defects study in bulk materials of high energetic positron created by using laser Compton scattering y-ray
- Po-3.5: **Shuoxue Jin** Institute of High Energy Physics, China Positron annihilation spectroscopy on FeCu alloy after hydrogen ion irradiation
- Po-4: **Syuntaro Minei** Ibaraki Univ., Japan Effect of focused ion beam processing on stainless steel studied by positron annihilation lifetime measurements
- Po-5: **Kagetora Ikeda** Chiba Univ., Japan Positron annihilation spectroscopy in the hydrogen-induced superabundant vacancies in the electrodeposited Cu films
- Po-6: **Hiroshi Ogawa** AIST, Japan Development of a beam focusing device for positron re-emission microscopy
- Po-6.5: **Wei Zhou**In-situ characterization of free-volume holes in polymer thin films under humidity conditions with an atmospheric positron probe microanalyzer
- Po-7: **Shuhei Aoyama** Chiba Univ., Japan Void analysis of silica-based glasses by positron annihilation lifetime spectroscopy
- Po-8: **Wenfeng Mao (C. He)** Wuhan University, China Correlation between defects and conductivity of Sb-doped tin oxide thin films
- Po-9: **Hiroyuki Hosomi** TRC, Japan Pore size and physical properties in porous low-k thin films
- Po-10: **Bangyun Xiong (C. He)** Wuhan University, China Positron annihilation characteristics in mesostructural silica films with various porosities

- Po-11: **Shigeru Yoshimoto**TRC, Japan
 Determination of pore size in mesoporous thin films by low-energy positron lifetime spectroscopy and ellipsometric porosimetry
- Po-12: **Naoya Uesugi** Chiba Univ., Japan Positron annihilation spectroscopy in hydrogen-induced defects in pure aluminum
- Po-12.5: **Jing Yang** Institute of High Energy Physics, China
 The influence of accumulated charges in polymers on variable-energy Doppler broadening measurement
- Po-13: **Takuma Yamashita** Tohoku Univ., Japan Effective potential energy for a positronic sodium atom and relativistic corrections
- Po-14: **Hiroaki Sakai** Ibaraki Univ., Japan Electric field effect on positron annihilation lifetime in Kapton
- Po-15: **Fuwei Liu (P.F. Fang)** Wuhan University, China Study on degradation of epoxy coating under UV irradiation by slow positron annihilation spectroscopy
- Po-16: **X.Y Peng (P.F. Fang)** Wuhan University, China

 The surface structure of UV exposed poly-dimethylsiloxane (PDMS) insulator studied by a slow positron beam
- Po-17: **Kazuomii Numata** Tokyo Gakugei Univ., Japan Decomposition mechanism of inorganic-layered smectite nanoparticles
- Po-18: **Y. Zhang (Z. Chen)** Wuhan Institute of Technology, China Study of the microstructure of ethylene vinyl acetate copolymer in melt extrusion
- Po-18.5: **Z. Chen** Wuhan Institute of Technology, China Study of the hydrophobicity recovery on polymer surface after plasma modification
- Po-19: **Masahito Tanaka**AIST, Japan

 Magnetic domain observation of Sm-Fe-N sintered magnets by using circularly polarized light in the soft x-ray region
- Po-20: **Nagayasu Oshima**AIST, Japan

 Development of a combinatorial technique for defect analysis with a positron microprobe
- Po-21: **Kenji Ito**AIST, Japan
 NMIJ certified reference materials for positron hole-size measurements

- Po-22: **Kenji Ito**Subnanoporosity development in hydrocarbon—siliconoxide hybrid PECVD films elucidated by variable-energy positrons
- Po-23: **Yoshinori Kobayashi** AIST, Japan Positronium in cardo-based polyimides and polysulfone
- Po-24: **Z. Tang**East China Normal University, China
 Positron annihilation study for enhanced NV-center formation in diamond by
 electron irradiation at 77K