4th International HiPeR symposium (combining with the annual meeting of HiPeR)

Date: March 4th to 6th 2019

Place: Hiroshima University Library Hall (Higashi Hiroshima campus)

Caution: The library hall only opens during 8:45-16:45.

Oral presentation: 15 min (invited: 25 min)

3/4 (Mon)

Time	Name	Affiliation	Presentation title
9:00-9:30	Registration		
9:30-9:40	Toru Inoue	Hiroshima Univ.	Brief introduction of HiPeR and welcome note
9:40-9:55	Naoki Ishimatsu	Hiroshima Univ.	High pressure XAS measurements on BL39XU of the
9.40-9.55			SPring-8: recent activities
9:55-10:20	Sakura Pascarelli	ESRF, France	Frontiers of High Pressure Research at the European
7.55 10.20	Sakara r ascarciii	Esiti , Trance	Synchrotron Radiation Facility
10:20-10:30			Break
10:30-10:55	Max Wilke	Univ. Potsdam,	X-ray spectroscopy on trace elements in silicate and
		Germany	carbonate melts
10:55-11:20	Chrystele Sanloup	Sorbonne Univ., France	Reactivity of heavy noble gases under high pressures
11:20-13:10		Lunch break (HAK	UWA hotel: Lunch Buffet)
	Angelika Rosa		Structure and geochemistry of noble gases from in-situ
13:10-13:35		ESRF, France	XAS up to 110 GPa and 3000 K and the origin of Earth's
			atmosphere
13:35-14:00	Guillaume Morard	CNRS, France	Composition of the Earth's core from a mineral physics
	Camaarric Frontara	Criticy France	point of view
14:00-14:10	Break		
14:10-14:35	Robert C.Liebermann	Stony Brook Univ., USA	Recent Ultrasonic Experiments at High P and T at Stony
	and Baosheng Li		Brook
14:35-15:00	Akira Yoneda	Okayama Univ.	DAC-GHz ultrasonic P wave velocity measurement on
			KCI and natural olivine
15:00-15:25	Yuji Higo	SPring-8, JASRI	Development of ultrasonic measurement technique
	9 9 -	J 3 -7 -1 -1 -1	toward whole lower mantle conditions
15:25-15:35	Break		
15:35-16:00	Tetsuo Irifune and	GRC, Ehime Univ.	Sound velocities of "breyite" and some implications for
15.55 10.00	Steeve Gréaux		seismological signatures around the 660 km
16:00-16:25	Masaki Akaogi	Gakushuin Univ.	High-pressure phase transitions of AB ₂ O ₄ spinels and
			related minerals
16:25-16:40	Hiroshi Fukuoka	Hiroshima Univ.	High-Pressure Synthesis and Structures of Chromium
			Sulfides

17.00 10.00	Destances in /in "Freulty of Colones" Building A. 7th floor
17:00-18:00	Poster session (in "Faculty of Science" Building A, 7th floor)

18:30-20:30	Banquet ("cafe bar The Earth")
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3/5 (Tue)

Time	Name	Affiliation	Presentation title
9:00-9:25	Tomoo Katsura	BGI, Univ. Bayreuth,	Water enhancement of ionic conductivity of olivine
	Torrioo Racsura	Germany	
9:25-9:40	Toru Inoue	Hiroshima Univ.	Hydrous bridgmanite
9:40-9:55	Tomoko Sato	Hiroshima Univ.	Shock-compressed behavior of quartz by XFEL
9:55-10:05	Break		
10:05-10:30	Yanbin Wang	APS, Univ. Chicago.	Eclogitization-induced mechanical instability in granulite
		USA	and intermediate-depth earthquakes in southern Tibet
10:30-10:55	Jennifer Kung	National Cheng Kung	Orientation-dependence of thermal conductivity of
		Univ., Taiwan	pyroxene

10:55-11:05			Break
11:05-11:30	Mitsuhiro Toriumi	JAMSTEC	Global Seismicity Dynamics by Data-driven Science - Japanese Islands Region
11:30-11:55	Saeko Kita	Building Research Institute	Variations in seismicity, b-values and stress orientations in the subducting slab under Kii peninsula
11:55-12:10	Naoki Suda	Hiroshima Univ.	Real-time monitoring of seismic slow earthquakes in the Nankai subduction zone
12:10-13:30		Lunch bi	reak (Gakushi-kaikan)
13:30-13:55	Takashi Nakagawa	Univ. Hong Kong, China	On the large-scale geochemical heterogeneity in deep mantle in hydrous mantle convection modeling
13:55-14:10	Ikuo Katayama	Hiroshima Univ.	Crack-dependent seismic discontinuity at oceanic Moho
14:10-14:25	Masako Yoshikawa	Hiroshima Univ.	Hydrous metasomatism recorded in the mantle wedge xenoliths from Mt. Pinatubo, Philippines
14:25-14:35	Break		
14:35-14:50	Fumito Shiraishi	Hiroshima Univ.	Life-water-mineral interactions—outcomes since 2017—
14:50-15:05	Tadashi Yokoyama	Hiroshima Univ.	Chemical property of dissolved Si and its relavance to the diffusion of Si in pore water
15:05-15:20	Hikaru Yabuta	Hiroshima Univ.	First half summary and current status of Hayabusa2 asteroid sample return mission
15:20-15:30	Break		
15:30-15:45	Masaaki Miyahara	Hiroshima Univ.	High-pressure minerals in shocked ordinary chondrites
15:45-16:00	Naotaka Tomioka	JAMSTEC	Lattice-shear-induced formation of a new Mg ₂ SiO ₄ spinelloid in shocked meteorites
16:00-16:15	Tomoyuki Shibata	Hiroshima Univ.	Partial melting of subducting oceanic crust

17:00-18:00	Labo tour (The Hiroshima Synchrotron Radiation Center (HiSOR))
18:00~	Free time (Dinner in each group)

3/6 (Wed)

10:00-12:00	(optional) Saijo Sakagura (Sake Wine Celler) Town Tour
12:00~	Free time

3/4 (Mon) 17:00-18:00 Poster presentation (in "Faculty of Science" Building A, 7th floor)

3/ 4 (14011)	17.00 10.00 1030		ractity of Science Building A, 7th floor)
Poster No.	Name	Affiliation	Presentation title
1	Takahiro Kuribayashi	Tohoku Univ.	Structural properties of (Al, H)-bearing Bridgmanite:
		TOHOKU OHIV.	Site preference of Al and possible positions of H
2	Tomoeki Nakakuki	Hiroshima Univ.	Water transport to deep mantle coupled dynamically
			with a plate-mantle convection system
3	Takaaki Kawazoe	Hiroshima Univ.	Starting Multi-Anvil Experiments at Hiroshima
			Petrology and zircon geochronology of Paleoproterozoic
4	Kosuke Kimura	Hiroshima Univ.	and Paleozoic granitoid bodies from Tsuwano area,
			Shimane Prefecture. SW Japan
5	Takeo Kaneko	Hiroshima Univ.	Water circulation linking with the mantle convection and
			hydrous mineral phase changes
6	Vota Tauliii	Llive eleine e Llein	Two ichnogenera of iguanodontid footprints from the
6	Yuta Tsukiji	Hiroshima Univ.	Lower Cretaceous Kitadani Formation, Fukui, Japan:
			Ichnotaxonomical implications
7	Sho Kakizawa	Ehime Univ.	Effect of pressure and Fe on water
			solubility of Al-bearing hydrous bridgmanite
			Microstructures and deformation mechanisms of
8	Dyuti Prakash Sarkar	Hiroshima Univ.	antigorite: Observations from serpentinite rocks of
			Rishabhdev and Gogunda area, Rajasthan, India
			Discovery of 480 Ma mylonitized diorite - quartz diorite
9	Konta Kawaguchi	Hiroshima Univ.	body at the northern margin of Sambagawa terrane in
9	Kenta Kawaguchi	HIIOSHIIIIa OHIV.	the Saganoseki Peninsula, Southwest Japan and its
			geological significance
10	Kahai Hatakayama	Llina ahina a Llais	Compressional and shear wave velocities of mafic rocks
10	Kohei Hatakeyama	Hiroshima Univ.	collected from Oman Drilling Project
11	Bidisha Dey	Hiroshima Univ.	The Geochemical Characteristics of Kyushu Basalts from
	Didisila DCy	Till OSIIII II OTIIV.	the HFSE and Isotopic perspective
10	Yozora Sakota	Llive eleine e Llein	Deformation condition beneath the Pinatubo volcano
12		Hiroshima Univ.	inferred from the microstructure of peridotite xenoliths
			Microstructural properties and formation process of
13	Takayoshi Nagaoka	Hiroshima Univ.	slickenside
	Takehiro Hirayama	Hiroshima Univ.	Geochemical features of Quaternary volcanic rocks and
14			xenolith from Futagoyama and Hime-Shima volcanic
			groups, Kyusyu, Japan
15	Takeru Omori	Hiroshima Univ.	Role of extracellular polymeric substance on
	Takera Officia	Till OSIMITIA OTNIVI	cyanobacterial calcification
	Hiroshi Fujiwara	Hiroshima Univ.	Regional correlation of Cretaceous ignimbrite of Sanyo
16			Province, SW Japan using zircon U-Pb chronology and
			minor element composition of apatite
17	Kazunari Kozuma	Hiroshima Univ.	Shock metamorphism recorded in lunar meteorite
			Investigation for the magma genesis and generation
	Ikuo Okada		process of Yufu-dake,
18		Hiroshima Univ.	Kyushu, Japan, inferred from major and trace element
			composition of the amphiboles in Yufu-dake lavas
			Experimental study on relationship between
19	Kazumasa Sueyoshi	Hiroshima Univ.	permeability and transport pore radius of rocks
20	Kensuke Kuroshima		Features of paleosols and pedogenic nodules in Tetori
		Hiroshima Univ.	Group, Kamiichi and Tateyama regions, Toyama, Japan
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		Littura alati	
21	Yuya Akamatsu	Hiroshima Univ.	Contrasting dilatant behaviors of mafic and ultramafic
	Yuya Akamatsu Ryohei Ikeda	Hiroshima Univ.	

23	Yuki Iwasaki	Hiroshima Univ.	Deformation characteristics of antigorite serpentinite
			exposed at Sasaguri area, Fukuoka Prefecture
			Microstructural observation of
24	Junya Okazaki	Hiroshima Univ.	pseudotachylyte exposed in Aravalli-Delhi
			orogenic belt, India
			Polycyclic aromatic hydrocarbons and aliphatic
			hydrocarbons in Jbilet Winselwan carbonaceous CM
25	Hiroki Kato	Hiroshima Univ.	chondrite: Attempt to evaluate the thermal
			metamorphism degree on the parent body
		_	Study of Paleoproterozoic banded iron formation,
26	Minami Kawaguchi	Hiroshima Univ.	Gwalior Group, India
		Hiroshima Univ.	Elucidation of aqueous alteration of Martian meteorite,
27	Naoki Shiraishi		Yamato 000749, using multi-probe microscopic
			observation
			Reexamination for the magma genesis of Quaternary
	Keisuke Nakano	Hiroshima Univ.	Tufu-Tsurumi volcanoes, northeast Kyushu, Japan,
28			inffered from Pb isotopic composition analyzed with
			· · · · · · · · · · · · · · · · · · ·
			double spike method Magma genesis of Pre-Unzen and Unzen volcano,
29	Takuma Yoshida	Hiroshima Univ.	northwestern Kyushu island, Japan
			Solubility behavior of δAlOOH-εFeOOH at high
30	Chaowen Xu	Ehime Univ.	pressures: Implication for water transports into the
30			deep lower manrtle and early Mars' interior
			·
31	Masamichi Noda	Ehime Univ.	Possible compositional area of Al bearing anhydrous
			bridgmanite Texture of ε-Fe variants observed by X-ray diffraction
32	Daiki Miyashita	Hiroshima Univ.	and differential interference contrast microscopy
		Hiroshima Univ.	XAFS spectra of rhenium metal under P>300 GPa
33	Keitaro Kuramochi		measured by a double stage diamond anvil cell
			measured by a double stage diamond anvil cell