The 26th SCEJ Symposium on Fluidization & Particle Processing and The 15th Symposium on Advanced Reaction & Chemical Process in Gifu (online) Program on (Thu) 26th Nov. 2020

				Program on (Thu.) 26th Nov. 2020				
9:40	9:50	Opening Remarks		Executive Committee Chairman: N. Kobayashi (Gifu University)				
	Invited Lecture 1 Chair: N. Kobayashi (Gifu University)							
9:50	10:30	K1	Fluidized be	d and me				
9.00				H. Moritomi (Moritomi Environmental Engineering Laboratory)				
	Invited Lecture 2 Chair: Y. Tatemoto (Shizuoka University)							
10:30	11:10	K2	Developmer	nt of green fluidized bed granulation and new particle characterization method				
10.30				E. Yonemochi(Hoshi University)				
11:10	11:20	Break						
	Student's Session (on the attached form)							
11:20	12:10	S1-S5	Student's S	ession 1 Chair: T. Yamamoto (Nagoya University)				
12:10	13:00	Lunch break						
13:00	13:50	S6-S10	Student's S	ession 2 Chair: K. Ogata (National Institute of Technology, Oita College)				
13:50	14:00	Break						
14:00	14:50	S11-S15	Student's S	ession 3 Chair: K. Arima (National Institute for Environmental Studies)				
14:50	15:00	Break						
15:00	16:00	S16-S20	Student's S	ession 4 Chair: Y. Mawatari (Kyushu Institute of Technology)				
15:50	16:00	Break						
	Invited Lecture 3 Chair: R. Noda (Gunma University)							
16:00	16:40	К3	Rotating Sp	iral, a Novel Gas-Solid Contacting Reactor				
10.00				T. Shimizu (Niigata University)				
	Student Award Ceremony and Banquet							
16:50	18:30							

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			Student's Session Program on (Thu) 26th Nov 2020					
Student's Session Program on (Thu.) 26th Nov. 2020 Student's Session 1 Chair: T. Yamamoto (Nagoya University)								
		[Improvement of powder properties for active pharmaceutical ingredients by continuous dry nano-coating method					
11:20	11:30	S1	OD. Yamada, T. Ito K. Tahara (Gifu Pharmaceutical University)					
			Synthesis of calcium carbonate template aiming at synthesis of hollow silica particles					
11:30	11:40	S2	OR. Nojiri ¹ , M. Hori ¹ , C. Takai ² , K. Fujimoto ¹ , M. Fuji ¹					
11.00	11.40	02	(1 Nagoya Institute of Technology, 2 Gifu University)					
			Sedimentation velocity measurements of TiO2 nanoparticles in aqueous solution with analytical centrifuge					
11:40	11:50	S3	OK. Nakamura, H. Guo (Tohoku University)					
			Optimization of Slurry Condition to Prevent Crack Formation of Ceramics Green Sheet					
11:50	12:00	S4	ON. Iwata, T. Mori (Hosei University)					
			Effect of pressure to thermal dehydration of waste gypsum powder using rotating and heating for a constant volume vessel					
12:00	12:10		OK. Arimura ¹ , K. Ogata ^{1,} H. Kawahara ² , H. Sano ³					
12.00	12.10	00	(1 National Institute of Technology, Oita College, 2 National Institute of Technology, Oshima College, 3 National Defense Academy)					
12:10	13.00	Lunch						
12.10	13.00		dent's Session 2 Chair: K. Ogata (National Institute of Technology, Oita College)					
		Stu	Heat Transfer in Internally Circulating Fluidized Bed Lab–Scale and Pilot Scale Facilities					
13:00	13:10	S6	OT. Oishi ¹ , H. Takeuchi ¹ , Y. Nagahashi ¹ , J. Grace ² , T. Takeuchi ³ , H. Kajiwara ³ , M. Watanabe ³					
13.00	15.10	30	(1 National Institute of Technology, Kochi College, 2 University of British Columbia, 3 Ebara Environmental Plant Co. Ltd.)					
10.10	10.00	C 7	Fluidization characteristics for binary density difference powders under mechanical vibration					
13:10	13:20	S7	Y. Mawatari ¹ , ON. Iwamura ¹ , J. Oshitani ²					
			(1 Kyushu Institute of Technology, 2 Okayama University of Science)					
13:20	13:30	S8	Effect of mechanical bed vibration on bubble flow pattern and dense phase void fraction in a gas-solid fluidized bed					
			Y. Mawatari, OT. Omori (Kyushu Institute of Technology)					
			Effect of air velocity on powder density segregation in a vibro-fluidized bed					
13:30	13:40	S9	OM. Hino ¹ , J. Oshitani ¹ , T. Tsuji ²					
			(1 Okayama University of Science, 2 Osaka University)					
	13:50	S10	Separation of organic materials such as woodchips from construction waste residue using a vibro-fluidized bed					
13:40			OT. Matsuoka ¹ , T. Yokouchi1, J. Oshitani ¹ , Y. Mawatari ²					
			(1 Okayama University of Science, 2 Kyushu Institute of Technology)					
13:50	14:00	Break						
		Stı	udent's Session 3 Chair: K. Arima (National Institute for Environmental Studies)					
14:00	14:10	S11	Drying of frozen material in fluidized bed under reduced pressure at low temperature					
14.00	14.10	511	OK. Takahashi, Y. Tatemoto (Shizuoka University)					
14:10	14:20	S12	Dry methane reforming under lower temperature using plasma					
14.10	14.20	012	OR. Yoshimi, N. Kobayashi, K. Kamiya, Y. Itaya, A. Suami (Gifu University)					
14:20	14:30	S13	Research on particle surface static electricity control using fluidized bed plasma reactor					
11.20	1 1.00		OY. Tonobe, N. Kobayashi, K. Kamiya. Y. Itaya, A. Suami (Gifu University)					
14:30	14:40	S14	Char combustion in carbonator of Ca-Looping process					
			OM. Takebuchi, T. Shimizu, H. Kim, L. Li (Niigata University)					
14:40	14:50	S15	N2O reduction and NOx reaction in carbonator of Ca-Looping process					
			ON. Hinokimoto, T. Shimizu, H. Kim, L. Li (Niigata University)					
14:50	15:00	Break						
			Student's Session 4 Chair: Y. Mawatari (Kyushu Institute of Technology)					
15:00	15:10	S16	Dynamic model of a fluidized bed reactor for thermochemical heat storage of the electricity from variable renewable energy					
			OT. Uchino, C. Fushimi (Tokyo University of Agriculture and Technology)					
15:10	15:20	S17	Numerical Simulation of Gas Velocity Distribution in a Coil-Shaped Rotating Spiral Gas-Solid Contacting Device					
			OD. Tanaka, S. Bellan, T. Shimizu (Niigata University)					
15:20	15:30	S18	Development and validation of the FELMI for the numerical simulation of the gas-solid flow systems					
			OY. Mori, M. Sakai (University of Tokyo)					
15:30	15:40	S19	A study on powder filling mechanism of rotary tablet press machine using DEM-CFD					
			OY. Tsugeno, M. Sakai (University of Tokyo)					
15:40	15:50	S20	Numerical Simulation on Fluidized Bed with Heat Exchange Using CFD-DEM: Model Validation					
15.50	16.00	Dreck	OY. Ono, Y. Numazawa, Y. Matsukawa, Y. Matsushita, H. Aoki (Tohoku University)					
15:50	10:00	Break						

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			Program on (Fri.) 27th Nov. 2020			
	Gene	ral Lecture	e Session 1 Chair: C. Fushimi (Tokyo University of Agriculture and Technology)			
			Development of acoustic operation of loop seal to improve particle circulation performance			
10:00	10:20	G1	in a circulating fluidized bed			
			OH. Sato, R. Noda (Gunma University)			
		G2	Development of thermal spray alloy optimized to Internally Circulating Fluidized-bed Boiler			
10:20	10:40					
			OE. Tanaka ^{1,} E. Ishikawa ¹ , S. Muramatsu ¹ , M. Noguchi ²			
			(1 Ebara Environmental Plant Co. Ltd, 2 Ebara Co. Ltd)			
10:40	11:00	G3	Biomass CFB boiler power plant			
11:00	11.10	Brook	OT. Satake (JFE Engineering Corporation)			
11.00		1:10 Break General Lecture Session 2 Chair: T. Shimizu (Niigata University)				
			About life extension work of existing fluidized bed boiler in Minoo city environmental clean			
11:10	11:30	G4	center			
11.10	11.00		OT. Takeuchi, T. Inoue, H. Kajiwara (Ebara Environmental Plant Co. Ltd)			
		G5	Comparison of 5 cases of volume reduction process for incineration residue contaminated			
11:30	11:50		by radioactive materials from the accident of Fukushima Daiichi Nuclear Power Plant			
11.00	11.00		K. Arima ¹ , M. Osako ¹ , T. Yasutaka ² , T.Shinozaki ³			
			(1 NIES, 2 AIST, 3 Mitsubishi Research Institute Inc.)			
11:50	13·00	Lunch Bre				
			General Lecture Session 3 Chair: T. Tsuji (Osaka University)			
13:00	10.00	G6	Improvement of fluidization quality for mixtures of two types of fluidized catalysts			
13:00	13:20	GO	OT. Kai, H. Odaka, Y. Honda (Kagoshima University)			
13:20	13:40	G7	Convective Particle Flow under Mechanical Bed Vibration for Fine Cohesive Powders			
10.20			OY. Mawatari, R. Nakamura, K. Sonoda (Kyushu Institute of Technology)			
		G8	Effect of particle characteristics to evaluation of flowability and cohesiveness of powder			
13:40	14:00		using a test of spouting powder by air pressure			
14.00	14.10	D	OK. Ogata, D. Ariga, S. Tsukuma (National Institute of Technology, Oita College)			
14:00	14:10		Session 4 Chair: H. Ishii (National Institute of Technology, Kitakyushu College)			
	Gener		Improvement of Scaled-up Particle Model for Discrete Element Method			
14:10	14:30	G9	OK. Washino, Y. Hu, L.E. Chan (Osaka University)			
	14:50	G10	Density Segregation of Equal-sized Binary Particles in Vibrated Fluidized Bed			
14:30			OZ. Jiang ¹ , T. Tsuji ¹ , K. Washino ¹ , T. Tanaka ¹ , J. Oshitani ²			
			(1 Osaka University, 2 Okayama University of Science)			
		G11	Dry separation of fine particulate mixture based on density-segregation in a vibro-fluidized			
	15:10		bed			
14:50			OJ. Oshitani ¹ , R. Sugo ¹ , G.V. Franks ²			
			(1 Okayama University of Science, 2 University of Melbourne)			
15:10	15:20	Break				
			vited Lecture 4 Chair: J. Oshitani (Okayama University of Science)			
	16:00	K4	Effect of Gas-Particle Interaction on Roller Spreading Process in Additive Manufacturing			
15:20						
			W. Nan ^{1,2} , M. Pasha ¹ , OM. Ghadiri ¹			
			(1 University of Leeds, 2 Nanjing Tech University)			
16:00	16:10	6:10 Closing Remarks Executive Committee Chairman of the 27th SCEJ Symposium on Fluidizati Particle Processing: T. Shimizu (Niigata University)				
			raiuole riocessing. 1. Shinnizu (Nilgata University)			