

# 1st International Symposium on Advanced Materials and Design (1st AMDS3), Kumamoto, 30-31 Jan, 2023

All given time are in Japan Standard Time (=UTC+09:00)

Version2 Update 2023/1/20

30 <sup>th</sup> January, Day 1					
Part I					
Japan Time		Speaker		Topic	Online
9:00-9:15		IROAST Director	JP	Opening Ceremony	
9:15-9:55	KS	Takafumi NOGUCHI	JP	Carbon recycling in concrete toward carbon neutrality in 2050	
9:55-10:35	KS	Barzin MOBASHER	U.S	Serviceability based design of Textile Reinforced Concrete	
10:35-11:15	KS	Yan XIAO	CN	Cross Laminated Bamboo and Timber (CLBT)	
11:15-11:25	Tea Break				
11:25-11:55	IS	Leonardo M. MASSONE	CHILE	Use of artificial intelligence for the structuring of wall buildings	√
11:55-12:10	N	Xiangcheng ZHANG	CN	Study on seismic performance of concrete column reinforced with PC steel bar and deformed bar	
12:10-12:25	N	Fuqiang SHEN	CN	Analytical modeling of concrete walls reinforced by CFRP bars	
12:25-13:30	Lunch Break				
Part II					
13:30-14:10	KS	Yuping SUN	JP	Seismic Performance and Evaluation of Drift-Hardening Concrete Components - towards mega-earthquake resilient buildings and infrastructures	
14:10-14:40	IS	Kazuo DAN	JP	Fault Rupturing Models of Mega Earthquakes Along The Kuril Trench for Predicting Strong Ground motions	
14:40-14:55	N	P. MALLA	JP	Numerical analysis of precast concrete shear wall with bolted connections	
15:00-15:30	IS	Daniele WALDMANN	GE	Circular resource-efficient construction – A holistic approach is needed	√
15:30-16:00	IS	Mohammed Yacine FERROUKHI	FR	Incorporation of Phase Change Materials(PCM) in Hemp Concrete Composition: Mechanical and Hkgrothermal Analysis	
16:00-16:30	Tea Break				
16:30-17:10	KS	Dimitrios AGGELIS	BE	Elastic wave techniques for the evaluation of performance of innovative lightweight construction materials	√
17:10-17:25	N	Yue WEN	JP	Effect of bonding on seismic performance of columns with UHS rebars under multiple reversed cyclic load	
17:25-17:40	N	Man ZHANG	JP	Experiment on seismic performance of recycled aggregate concrete shear walls using ultra-high strength reinforcement	
			KS	Keynote speaker	
			IS	Invited speaker	
			N	Normal presenter	

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31 <sup>st</sup> January, Day 2					
Part III					
Japan Time		Speaker		Topic	Online
9:00-9:40	KS	Jianfei CHEN	CN	Potential applications of FRP and UHPSSC in ocean engineering	√
9:40-10:10	IS	Feng XIONG	CN	A demountable bolted concrete sandwich insulation wall panel system	√
10:10-10:30				Tea Break	
10:30-11:00	IS	Jiansong WU	CN	Experimental study on propagation characteristics of natural gas explosion in utility tunnels	√
11:00-11:30	IS	Haihua ZHANG	CN	Monitoring the hardening of cemented material using plastical optical fiber sensors	√
11:30-12:00	IS	Chong REN	CN	Buckling behaviour and design method of cold-formed steel lipped channel members under combined compression and minor axis bending	√
12:00-12:15	N	Zhenyuan HANG	CN	Fracture properties of a concrete-epoxy mortar interface with precoating treatment applied through image correlation technology	√
12:15-12:30	N	Yixi LIU	CN	Analysis on influence of Post-pouring Belt on Temperature Effect of Integrated Bridge-building Jointless Railway Station Structure	√
12:30-14:15				Lunch Break	
Part IV					
14:15-14:45	IS	Xiaoshuang SHI	CN	Properties and environmental evaluation of geopolymers concrete containing solid waste	√
14:45-15:00	N	Xi CHEN	GE	The first peak model of hydration in cement pastes	√
15:00-15:15	N	A. DANSOU	FR	Multiscale modelling of textile reinforced concrete: a literature review	√
15:15-15:30				Tea Break	
15:30-16:10	KS	Tine TYSMANS	BE	Textile reinforced cement composites for resource-efficient structural systems: a wide range of opportunities	√
16:10-16:50	KS	Catherine PAPANICOLAOU	GREECE	Latest trends on strengthening of masonry structures	√
16:50-17:20	IS	Marano G. CARLO	IT	Perspective of Computational Intelligence in structural design, management and life cycle assessment	√
17:20-17:35	N	I. IVANOVA	FR	Experimental investigations of external strengthening structures by natural fiber composites	√
17:35-17:50	N	Nouredine BOURAHLA	FR	Construction provisions enhancement of a gA-based optimization of structural design of CFS structures	√
17:50-18:05	N	SAHNOUN Ali YACINE	FR	Stability study of a roller compacted concrete gravity dam (RCP)	√