September 28th (Tue), 2021

Hybrid Sessions

:Invited Lecture

Room	10:	:00	11	:00	12	:00	13	:00	14	:00 15:00 16	i:00	17:00 18:00	19:	00 20:00 21:00
Session Room 1 Main Hall, Conference Building 2F	Opening A & Opening Cere			Meet the Tsuneo k		Keyn Kojiro				028B01 Control and Hybrid System		O28C01 (COS) Protective Technologies for Possible Extreme Seismic Events in Future		028D01 Damping Devices
Session Room 2 Tachibana Conference Hall, Conference Building 2F						Meet the I				O28B02 Seismic Performance of Bridges 1		028C02 Seismic Performance of Bridges 2		028D02 Structural Members, Seismic Response
Session Room 3 Hagi Conference Hall, Conference Building 2F										O28B03 (COS) Rebuilding from the Great East Japan Earthquake - Current Status, Future Outlook and Lessons Learned		O28CO3 Earthquake Response and Early Warning		O28D03 Damage Estimation
Session Room 4 Meeting Room 1, Exhibition Building										Future Direction 1 Emerging Vulnerability		Sponsored Session 1 Non-Profit Organization for Action- oriented Disaster Risk Reduction		O28D04 (SOS) Engineering Bases to Ensure Protection of NPPs against Earthquakes
Session Room 5 Meeting Room 2, Exhibition Building										O28B05 Liquefaction 1		028C05 Liquefaction 2		O28D05 Slope Failure

Room	10:00	11:0	00	12:00	0	13:00)	14:00		15:00		16:	:00	17:	:00	18	:00	19	:00	20	:00	21:00
On-line 1									(SOS) Rece Resilient Url Disa		ss of Chi			G		3C06 ion Studies	1			028 Hazard Ass	D06 sessment 1	
On-line 2								0	OS) 2021 Kyoto of Surface Geolog eflections on Pas State-o	gy on Seisn	m for the 6 nic Motion oming ESG	(ESG6):		Damp		3C07 ergy Dissipa	ation 1		Damper a	028 and Energy	D07 Dissipation	n Devices
On-line 3									Case Stud	028B08 ly on Seise Construction	mic Retro	ofit		Seism		3C08 nent and Re	etrofit		Experimen	028 tal Results		: Retrofit 1
On-line 4									Seismic P	O28B09 Performan		nts		Seismic Pe		BC09 e of Bracing) Members		Design Pr	028 ovisions fo	D09 r Innovativ	e System
On-line 5								P	(COS) Recer erformance Of		ces in Sei uctural E				Recent Ad	SC10 vances in S I-Structural NSE) 2					vances in S -Structural	
On-line 6									SOS) Confined mproving Glob		Constructure	silience:		(SOS) Cor		3C11 to Sendai Fi	ramework				D11 omoting Sa sistant Hou	
On-line 7																						
On-line 8																						



September 29th (Wed), 2021

Hybrid Sessions

:Invited Lecture

Room	10	:00	11:0	00	12:	00	13:00	14	:00	15:00	16	5:00	17:00	18:00	19:	20:00 21:00
Session Room 1 Main Hall, Conference Building 2F		A01 d Concrete			Keyno Satoshi				Experimental	O29B01 Findings in Bas	se Isolators		O29 Case Study on Perfor	9 C01 rmance-Based Design		O29D01 RC Components and Systems
Session Room 2 Tachibana Conference Hall, Conference Building 2F					Keyno Niels B. Niels	Holm-				029B02 arison of Buildi des Worldwide	-		(SOS) Post-Earthqu	9C02 Jake Urban Evolution the History of WCEE		O29D02 (COS) Semi-Active Control Strategy of Base-Isolation System against Near Fault Ground Motions Verified by E-Defense Test and Real-Time Hybrid Simulation
Session Room 3 Hagi Conference Hall, Conference Building 2F		AO3 ent Policy											Innovative Techno	9C03 blogy in Earthquake neering		O29D03 Tsunami Disaster 1
Session Room 4 Meeting Room 1, Exhibition Building	Future D Seismic Design for	irection 2 Minimum D	amage						Assessment a	O29B04 and Retrofitting	of Bridges			9C04 Ilines		029D04 Foundation Structures
Session Room 5 Meeting Room 2, Exhibition Building									Soil Stri	029B05 ucture Interact	ion 1			9 C05 e Interaction 2		029D05 Ground Failure

-										
Room	10:00 11:00	12:00	13:00 14:	15:00	:00	17:00 18:00	19:	:00 20	21:0	:00
On-line 1	029A06 Hazard Assessment 2			O29B06 Ground Motion Studies 2		O29C06 Concrete Walls 1			DD06 osure	
On-line 2	O29A07 Improving Design Provisions 1			O29B07 Damper and Energy Dissipation 2		O29C07 Seismic Isolation and Control of Bridges			PD07 cion Systems 1	
On-line 3	O29A08 Dynamic, Hybrid Test and Simulation			O29B08 (COS) Recent Advances in Hybrid Simulation: Methods and Applications		O29C08 (SOS) "DEKATSU" the Consortium of Data and Service Collaboration among Private Companies and Academic Institutions for Tokyo Metropolitan Resilience Project		O29D08 (COS) Anti-Catastrophe: Performance of Infrastructure Systems for Social Resilience Against Extreme Earthquake Events		
On-line 4	O29A09 (COS) Advancements in Evaluation of Existing Buildings			O29B09 (SOS) Recent Advancements in Seismic Design and Performance of New and Existing Steel Structures		O29C09 (COS) Seismic Analysis and Mitigation Strategies of Major-Hazard Industrial Facilities				
On-line 5	O29A10 (SOS) Development of Seismic-Resilient Lateral Systems for Tall Timber Buildings			O29B10 (SOS) Should a Structure be Designed Assuming Maximum-Direction Ground Motions Along the Principal Axes?						
On-line 6	029A11 (SOS) Management of Post-Disaster Debris and Waste			029B11 (SOS) Deploying High Strength Reinforcement in Seismic Regions - Risks and Rewards		O29C11 (COS) Full- vs. Reduced-Scale Tests for Modeling/Assessment of Structural Members, Dampers and Isolators				
On-line 7	O29A12 (COS) Performance Gap Challenges After Loma Prieta: Managing Seismic Risk in the Legal Arena			O29B12 Dam, Earth and Underground Structures		029C12 Shaking Table Test				
On-line 8	O29A13 (SOS) Resilience and Risk Assessment of Structures under Multiple Hazards			Sponsored Session 2 Kinemetrics						



September 30th (Thu), 2021

Hybrid Sessions

:Invited Lecture

Room	10:00 1	1:00	12:00	13:00	14	:00 15:00 16	:00	17:00 18:00	19:	20:00 21:00
Session Room 1 Main Hall, Conference Building 2F	030A01 Steel Components and Systems 1		Meet the Masters 3 Luis Esteva Maraboto			030B01 Seismic Isolator 1		030C01 Structural Member Assessment 1		030D01 Steel Components and Systems 2
Session Room 2 Tachibana Conference Hall, Conference Building 2F	030A02 Concrete Walls 2		Meet the Masters 4 Theodosis P. Tassios			O30B02 Lessons Learnt from Earthquakes		O30C02 (SOS) Integrated Research on Great Earthquakes and Disaster Mitigation in Nepal Himalaya		Sponsored Session 3 Shelter Japan Corporation
Session Room 3 Hagi Conference Hall, Conference Building 2F	O30A03 (COS) Cutting-Edge Research on Buckling-Restrained Braces (BRBs) and their Applications 1							O30C03 (SOS) Observation and Estimation of Damping of Buildings		
Session Room 4 Meeting Room 1, Exhibition Building	Future Direction 3 Super Advanced Exploration, Simulation, and Monitoring					O30B04 Inelastic Response of Structural Systems 1		O30C04 Nuclear		030D04 Inelastic Response of Structural Systems 2
Session Room 5 Meeting Room 2, Exhibition Building						O30B05 (SOS) A New Seismic Observation Perspective for Estimation of Site Amplification		O30C05 Soil Structure Interaction 3		

·	ai Sessions								
Room	10:00 11:	00 12:0	00 13:00	14:00	15:00 16	:00	17:00 18:00	19:0	0 20:00 21:00
On-line 1	O30A06 Risk Assessment of Buildings				O30B06 Loss Estimation 1		O30C06 Loss Estimation 2		030D06 Human Behavior
On-line 2	O30A07 Nonlinear Modeling of Structural Members and Systems				030B07 Seismic Retrofit of Historic Buildings		O30C07 Non-Structural Components and Systems		O30D07 Seismic Isolation Systems 2
On-line 3	O30A08 Design Ground Motion			(O30B08 (SOS) Earthquake Ground Motion Hazard in Subduction Regions		030C08 Masonry Structures		O30D08 Probabilistic Modeling
On-line 4	O30A09 (SOS) Machine Learning Applications in Seismic Risk and Resilience Assessment of Distributed Infrastructure Systems				030B09 Seismic Performance of Bridges 3		O30C09 Rapid Structural Assessment		O30D09 (COS) Low Damage/ Resilient Construction
On-line 5	O30A10 (SOS) Open-Source Tools for Simulating the Effects of Earthquakes and Other Natural Hazards on Communities				030B10 (COS) Cutting-Edge Research on Buckling-Restrained Braces (BRBs) and their Applications 2				O30D10 (COS) Recent Advances in Seismic Isolation and Supplemental Damping Systems for Vibration Control
On-line 6	O30A11 (SOS) Forty Years after Mete Sozen's First Pitch for Drift-Driven Design				030B11 (COS) Designing for Tsunami Loads and Effects per ASCE 7-16				O30D11 (SOS) Earthquake Resistant Buildings Using Raw and Engineered Bamboo
On-line 7	030A12 Ground Motion Studies 3			F	030B12 (SOS) The 2019 Tokyo Metropolitan Resilience Project E-Defense Test of a 3- Story Disaster Management Center				
On-line 8	O30A13 (COS) Regional Seismic Risk and Resilience Assessment								



October 1st (Fri), 2021

Hybrid Sessions

:Invited Lecture

Room	10:00 11	:00	12:00	13:00	14	:00	15:	:00	16:	00	17:00	18:00
Session Room 1 Main Hall, Conference Building 2F	001A01 Structural Member Assessment 2		eynote 4 Robert J. Budnitz				001 Maso					IC01 Isolator 2
Session Room 2 Tachibana Conference Hall, Conference Building 2F	001A02 Bridges and Infrastructures		eynote 5 d Mani Dixit			Structi	001 ural Memb		ment 3			1C02 of Seismic Retrofit 1
Session Room 3 Hagi Conference Hall, Conference Building 2F	O01A03 Inelastic Response of Structural Systems 3										Experimental Fin	ICO3 dings in Protective vices
Session Room 4 Meeting Room 1, Exhibition Building	Future Direction 4 Societal Resilience to Earthquakes and Tsunamis						001 Tsunami [The 1st Tsunami Bli	Contest nd Prediction Contest and structures -
Session Room 5 Meeting Room 2, Exhibition Building	O01A05 (SOS) Contributions of Large-Scale Experimental Facilities to Computational Earthquake Engineering and Their Futures - From 15-Year Experience of E-Defense -						O01 Achieveme cy Against	ents of SIP				LC05 Learning

Room	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	
On-line 1	O01A06 Uncertainty and Risk				Inelastic	O01B06 Response of Structural	Systems		001C06 se of Structural Systems 5	
On-line 2	001A07 Ground Motion Studies 4					O01B07 Liquefaction 3			001C07 Notion Studies 5	
On-line 3	O01A08 (COS) Physics-Based Modeling U Kinematic and Dynamic Sourc Representations for Quantitative S Motion Simulation	e				001B08 For Building Platform to Structure from Other N			001C08 ent of Infrastructures	
On-line 4	O01A09 (SOS) Framework for Infrastructure Systems Resilience: Overview and Illustrative Applications in Japan and U.S.				Econo	001B09 ost-Earthquake Damage omic Losses and Seismi n Strategies for Public a Buildings	ic Risk	001C09 Seismic Retrofit Design		
On-line 5	(SOS) Roadblocks and Incentives Worldwide Adaptation and Implementation of Seismic Struct Health Monitoring (S2HM)				Philosop Improve th	001B10 In-Engineered 2.0": Rethinlings and Technological Strate Seismic Performance and Non-Engineered Constructi	ategies to d Resilience	Other Contrib	001C10 ution to Earthquake gineering	
On-line 6	O01A11 (COS) Major Developments in Eval Seismic Performance of Buildings Implementation in New Desig	and				O01B11) Performance-Based S n: State of U.S. Researd Practice				
On-line 7	O01A12 (SOS) Transportation System Sei Performance: PEER TSRP and Life Programs									
On-line 8										



October 2nd (Sat), 2021

Hybrid Sessions

:Invited Lecture

Room	10:00	11:00	12:00	13:00	14:00	15:0	00 16:	:00	17:	:00
Session Room 1 Main Hall, Conference Building 2F	002A01 Experimental Results on Seis	mic Retrofit 2	Keynote 6 George Gazetas			O02E Various Methods of			Closing C	eremony
Session Room 2 Tachibana Conference Hall, Conference Building 2F	002A02 Energy Facility		Keynote 7 Tracy Kijewski- Correa			O02E (COS) Seismic Analy Mechanical	ysis and Design of			
Session Room 3 Hagi Conference Hall, Conference Building 2F	002A03 Diagnosing Vulnerable E	Buildings				002E Seismic Vul				
Session Room 4 Meeting Room 1, Exhibition Building	002A04 (COS) The 2019 Large-S Program of Wood Dwelling Soil-Foundation Systems Improving Earthquake R	s Including Towards				O02E Code Provisions for	-			
Session Room 5 Meeting Room 2, Exhibition Building										

Room	10:00 11	:00	12:00	13:0	00	14:0	00	15	:00	16	5:00	17:	00
On-line 1	O02A06 Ground Motion Studies 6						Simulati Tsuna	O02 ntegrated Hons Relate mi Using Homputing	lazard and d Earthqua ligh Perforr	kes and mance			
On-line 2	002A07 Timber Components and Systems						Impi	O02 roving Desi		ons 2			
On-line 3	002A08 Recovery and Resilience						Damage I	002 mpact and		nunication			
On-line 4	002A09 Seismic Performance of Equipment and Piping System						Perspect	O02 Current Sives of Effe ment on Cr	tatus and F	ace Fault			
On-line 5	O02A10 (SOS) Seismic Performance of Precast Concrete Structures Emphasizes on the Connections												
On-line 6	O02A11 Post Disaster Assessment and Computational Science												
On-line 7	002A12 Risk Assessment at Urban Level												
On-line 8													

