

1st International Conference on Concrete and Steel Technology, Engineering & Design (CASTED2018)

“Concrete and Steel Technology, Engineering & Design at a Glance”

PROGRAMME

Day ONE - 24 May 2018, Thursday

10:00 – 13:00 H	Registration of Delegates	
PLENARY SESSION 1		
Master of Ceremonies:		
13:00 – 14:00 H	Opening Program Welcome Message Engr. Danilo A. Domingo, President, Association of Structural Engineers of the Philippines (ASEP, 2017-2018) Hon. Antonino G. Calixto, Mayor, Pasay City Inspirational Message Hon. Maria Catalina Cabral, Ph.D., Undersecretary, Department of Public Works and Highways (DPWH) and PICE National President Hon. Ruth Castelo, Undersecretary, Department of Trade and Industry Introduction of the Guest Speaker – Adam C. Abinales, Chairman, CASTED2018 Technical Committee Guest Speaker – Hon. Aurelio “Dong” Gonzales, Deputy Majority Floor Leader, House of Representatives Overview of the Conference & House Rules – Gilbert B. Magbutay, CASTED2018 Overall Chairman Opening of Exhibits – ASEP Board led by Danilo A. Domingo, CASTED2018 Committee led by Gilbert B. Magbutay, and Guests	
Moderators:	Christopher Paolo Tamayo	Miriam L. Tamayo
14:00 – 14:30 H	Sponsored Technical Presentation on Polymer Technology - Alphatec Chemical Corporation	
14:30 – 15:20 H	KN-1: Concrete-Steel Composite and Mixed Components For Efficient Structural Systems Dr. Naveed Anwar (AIT Solutions, Thailand)	
15:20 – 16:00 H	KN-2: Importance of Soil-Structure Interaction (SSI) When Using Performance-Based Design Carlos Carames Molero (Dynamis Associates, Spain)	
16:00 – 16:40 H	KN-3: Application of BIM Technology for The Waterfront Commercial District – Junction 9 Pergola Bridge Alden P. Cayaga (Neo Spectrum Engineering Consultancy, Qatar)	
16:40 – 17:00 H	Open Forum	

Day TWO - 25 May 2018, Friday

PLENARY SESSION 2		
Moderators:	Anthony Vladimir Pimentel	Wilfredo Lopez
8:00 – 8:40 H	KN-4: Certification Program of the American Concrete Institute – Philippines Chapter Ramon F. Allado (ACI Philippines)	
8:40 – 9:20 H	KN-5: Construction of Mass Rapid Transit (MRT) In Singapore: Top-Down Construction Method of Underground Tunneling Works Emil V. Embile (CN2E Consultants PTE Ltd. Singapore)	
9:20 – 10:00 H	KN-6: Analysis of the Efficiency of Toggle-Brace-Damper Systems for the Seismic Protection of High-Rise Buildings Javier Lopez Gimenez (Kawakin Core-Tech Co., Ltd., Japan)	
10:00 – 10:10 H	Open Forum	
10:10 – 10:40 H	Sponsored Technical Presentation on Chemical Products used In Concrete Construction - BASF Philippines	

10:40 – 11:20 H	KN-7: Crack Propagation due to Rebar Corrosion and Non-destructive Tests to Detect the Crack Hikaru Nakamura (Nagoya University, Japan)	
11:20 – 12:00 H	KN-8: Non-Destructive Testing and Assessment of Concrete Sohichi Hirose (Tokyo Institute of Technology, Japan)	
12:00 – 12:10 H	Open Forum	
12:10 – 13:10 H	Lunch	
	Technical Session IA: Organized Session on Non-Destructive Testing (NDT) and Concrete Assessment	Technical Session II on Composite and Cold-Formed Members; Risk Mitigation, Rehabilitation and Retrofitting; and Environmental Loadings
PARALLEL SESSION 1		
Moderators:	Sohichi Hirose	Juanito Cunanan
13:20 – 13:45 H	TP1-1 Investigation on Applicability of X-ray Stress Measurement to Steel Bar in Concrete Structure Hiroaki Sogawa (Tokyo Institute of Technology, Japan)	TP2-1 Experimental Verification of the Code-Based Compressive Strength of C and Z Section Cold Formed Steel (CFS) Bernardo A. Lejano (De La Salle University)
13:45 – 14:10 H	TP1-2 Estimation of Remaining Prestress on PC Structure by Using Expansion of Concrete with Water Absorption Ryota Kurihara (Tokyo Institute of Technology, Japan)	TP2-2 Experimental Investigation of Jalousie-Type Window Frames Subjected to Static Wind Pressure A.A. Carandang Jr. (University of the Philippines Diliman)
14:10 – 14:35 H	TP1-3 Condition Evaluation of a Highway Bridge with RC Deck Using Monitoring Data Obtained by Wireless Sensors Eiichi Sasaki (Tokyo Institute of Technology, Japan)	TP2-3 Comparative Assessment on Susceptibility of High-Rise Reinforced Concrete Buildings to Wind-Induced Motion-Based on Various International Codes Germar S. Porqueriño (Sy2 + Associates, Inc.)
14:35 – 15:00 H	TP1-4 Non-Destructive Test On Ferrocement Wall With Fly Ash Vincent Pillen (De La Salle University)	TP2-4 Special Structural Connections for Under Hung Scaffolds in Hydrocarbon and Petrochemical Plants Trese T. Bustamante (Binzagr Factory for Insulation Materials)
15:00 – 15:10 H	Open Forum	
15:10 – 15:15 H	Break	
PARALLEL SESSION 2		
Moderators:	Wallace Lestano	Ademar Pama
	Technical Session IB on Advanced Material Testing and Standards and Fatigue, Fracture and Failure Analysis	
15:15 – 15:40 H	TP1-5 Homogeneity and Compressive Strength Assessment of Self-Compacting Concrete Using Artificial Neural Network Stephen Clemente (FEU Tech)	TP2-5 Development of a Mobile Assessment Tool for One-Storey Classroom Buildings in the Philippines against Severe Wind Loading Jaime Y. Hernandez Jr. (University of the Philippines Diliman)
15:40 – 16:05 H	TP1-6 Bond Strength Model of Deformed Bars in Reinforced Concrete Using Artificial Neural Network Nolan C. Concha (FEU Tech)	TP2-6 Development of a Feature-Based Approach for Estimation of Damaged Structures in Urban Areas Ishmael C. Narag (PHIVOLCS)
16:05 – 16:30 H	TP1-7 Modeling of Concrete Pull-out Resistance as Influenced by Coarse Aggregate Size Using Polynomial Regression	TP2-7 Assessment of Seismic Risk of Built Heritage Structures Using Fragility Curves: The Case of Manila Metropolitan Theater Jashwin Benedict C. Ullal (FEU Institute of Technology)

	Gilford B. Estores (Mapua University)	
16:30 – 16:55 H		TP2-8 Innovative Solutions for More Efficient and Versatile Structural Strengthening Christian Dimalibot (Sika)
16:55 – 17:10 H	Open Forum	

Day THREE - 26 May 2018, Saturday

	Technical Session III on Connection Detailing and Fatigue, Fracture and Failure Analysis	Technical Session IV on Tall Buildings, Innovative Housing Technologies; Environmental Structures; and Building Information Modelling (BIM)
PARALLEL SESSION 3		
Moderators:	Rodelio Tiburcio	Mark Elson Lucio
8:30 – 8:55 H	TP3-1 Numerical Simulation of Bolted Flange Plate (BFP) Moment Connection for Threat-Independent Progressive Collapse Resistance Angelo M. Betache (University of San Carlos)	TP4-1 Performance-Based Design of Structural Steel Building for Fire Conditions Allan B. Benogsudan (Technological Institute of the Philippines)
8:55 – 9:20 H	TP3-2 Fastening on Steel Joanna Marie M. Solomon (Hilti Philippines)	TP4-2 Performance-Based Earthquake Engineering Assessment of a Liquid Containing Structure Edison C. Malahito (Maynilad Water Services, Inc.)
9:20 – 9:45 H	TP3-3 Delegated Connection Design – Trade Practices In The U.S. Rodolfo A. Chua Jr. (University of San Carlos)	TP4-3 Testing Roof Panel Systems in the Philippines using Air Uplift Chamber Harvey O. Bisa (UP Diliman Institute of Civil Engineering)
9:45 – 10:10 H	TP3-4 Investigation of Progressive Failures of Corrugated Roofing Assemblies in the Philippines using a Finite Element Model G.M. Opiña (University of the Philippines Diliman)	TP4-4 Structural Consideration in the Design of the Tallest Residential Building in the Philippines Jose A. Sy (Sy ² + Associates, Inc.)
10:10 – 10:30 H	Open Forum	
10:30 – 10:35 H	Break	
Moderators:	Ariel Santos	Francis Anthony Valderrama
10:35 – 11:00 H	TP3-5 Fatigue Analysis and Design of Post-Installed Anchors Rainier V. Cruz (Hilti Philippines)	TP4-5 Mix Design for CHB with Plastic Waste for a Resettlement Area at Calauan, Laguna Nikko Paolo P. Villanueva / Maejan Cuartero (De La Salle University)
11:00 – 11:25 H	TP3-6 Worldwide Premature Building Failures in Recent Earthquakes – Why the Chronic Inability to Achieve the 50-year Design Life? Paul Finlay (New Zealand)	TP4-6 Developing a Structural Analysis Procedure Utilizing BIM and HPC for Application to Large-Scale Urban Seismic Response Estimation Pher Errol B. Quinay (UP Diliman Institute of Civil Engineering)
11:25 – 11:50	TP3-7 Fracture Study on Welding of Steel Tower Roland Rabot	TP4-7 Investigation on the Use of Shipping Container as Post-Disaster Housing Richel le G. Zafra (University of the Philippines Los Baños, College)
11:50 – 12:00 H	Open Forum	
12:00 – 13:00 H	Lunch	

Special Technical Forum on The Philippine Earthquake Model (PEM) and Development of the Probabilistic Seismic Hazard Analysis (PSHA) for the Entire Philippines	
PLENARY SESSION 3	
Moderators:	Vinci Nicholas Villaseñor Ronaldo Ison
13:00 – 13:30 H	Sponsored Technical Presentation on Technology Solutions and Tekla Building Information Modeling (BIM) – Vibrant Technology Solutions, Inc.
13:30 – 14:00 H	TF-1: The Project S.A.M. Adam Abinales (Association of Structural Engineers of the Philippines)
14:00 – 15:00 H	TF-2: The Philippine Earthquake Model (PEM) Atlas: PEM, UBC, IBC and ASCE7-19 Spectral Acceleration Comparison Rommel N. Grutas (Philippine Institute of Volcanology and Seismology, DOST)
15:00 – 15:30 H	Break
15:30 – 16:45 H	TF-3: Spectral Acceleration Maps of the Philippines in the Context of ASCE7-10 Carlos M. Villaraza (Association of Structural Engineers of the Philippines)
16:45 – 17:00 H	Open Forum
17:00 – 17:10 H	Closing Remarks Distribution of Certificate of Attendance