



ICCT 2019 - Preliminary Program
International Conference on Industrial Construction and Cooling Towers
October 9 - 12, 2019, Edinburgh, Scotland



Rooms	Room A - Dunedin	Room B - Holyrood	St. Giles Suite	Canongate	Scottish Cafe	Playfair Library
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Time	Wednesday, October 9, 2019
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15:00	Registration
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19:00	Welcome Reception (sponsored by ZENITH, represented by CICIND member Colin McCURDY)
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Time	Thursday, October 10, 2019
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Opening Session - Introductory Lectures	
Chair: EASTMAN Gary	
09:00	HARTE Reinhard and HOFFMEISTER Hermann, Germany Opening Ceremony and Minute's Silence for Wilfried KRÄTZIG and Klaus KAEMMER
09:15	NN History of Edinburgh
09:30	ANGELIDES Michael, President of CICIND, Athens, Greece An Alternative Support System for Large Cooling Towers in Regions of High Seismicity
10:00	BORRI Claudio, Firenze, Italy Dynamics of Off-Shore Wind Energy Structures - Wind-Wave-Structure Interaction Phenomena
10:20	NOAKOWSKI Piotr, Düsseldorf, Germany Tightness of LNG containments regarding cracking - Design Method based on CICIND MC and Eurocode EN 13084

10:50	Coffee Break + Exhibition (Coffee sponsored by HADEK)
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Structural Design		Concrete Repair	
Chair: GE Yaojun		Chair: ANGELIDES Michael	
11:20	LAFUENTE-HERNANDEZ Elisa Bochum, Germany Rehabilitation of a Cryogenic Ethylene Tank: From Conceptual Design to Execution	LOHAUS Ludger Hannover, Germany Performance-based Durability Design of Natural Draught Cooling Towers and Chimneys	
11:45	BHATTIPROLU Jithendra Navi Mumbai, India Comparison of Design of Foundation for Cooling Towers with Vertical and Raker Piles	EISENKREIN-KREKSCH Helena Beckum, Germany Determination of the Required Rehabilitation Materials for the Repair of Damages Caused by Chlorides and Alkali - Silica Reaction on a Natural Draught Cooling Tower Shell Outside	
12:10	LANG Christian Maikammer, Germany Prestressing of Shells of Revolution in Industrial Facilities - Silos, Containments, Natural Draft Cooling Towers	STAHL Heiner Essen, Germany Concrete Repair of the Bridge Pylon of Flehe Bridge	
12:35	DÖMÖTÖR Zoltán Budapest, Hungary Natural Draught Steel Cooling Towers for Heller Dry Cooling Systems - A Brief History and Current Challenges	BOCHICCHIO Victor Somerville, NJ, USA Methods of Strengthening Cylindrical Concrete and Masonry Structures with External Reinforced Concrete Sheaths	

13:00	Lunch
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	Structural Design		Maintenance and Coating	
	Chair: LUPI Francesca		Chair: LOHAUS Ludger	
14:00	GOLDACK Arndt Wuppertal, Germany	Internal Section Forces of Industrial Chimneys under Wind Load using the semi membrane theory	JUN Daniel Mülheim, Germany	New VGB Standard "Lifecycle Management of Structures in Industrial and Power Plants"
14:25	RAJORA Rishav Delhi, India	Numerical and Experimental Studies of Tall Reinforced Concrete Chimney	IMANI Ramin Essen, Germany	High-Tech Hybridized Polymeric Coating in Corrosion Protection of Gas Sweetening Units
14:50	LECHMAN Marek Warsaw, Poland	Section Model for Nonlinear Analysis of the Resistance of RC Tower Structures	MARTIN Reinhard Bottrop, Germany	For the Slimline Structural Strengthening with CFRP
15:15	MEYER Joachim Bochum, Germany	The Newly Revised VGB Standard for Cooling Towers BTR 2018 - an International Approach	HEINE Peer Mülheim, Germany	Development of High-Temperature Resistant Resin-Based Sealer Systems for Inside Chimney Protection

15:45	Coffee Break + Exhibition (Coffee sponsored by HADEK)					
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	Wind Action		Monitoring and Maintenance	
	Chair: BORRI Claudio		Chair: NOAKOWSKI Piotr	
16:15	LUPI Francesca Bochum, Germany	Vortex Resonance Models for Wind Engineering: a new Proposal	ENGELFRIED Robert Herdecke, Germany	Presentation of a Monitoring System of Natural Draught Cooling Towers with Evaluation Results of a Long Term FGD Operation
16:40	SHEN Xiaomin Shanghai, China	Wind Load and Structural Effect of a Cooling Tower Subject to the Action of Tornado	PIOT Sebastian Lyon, France	35 years of Remote Visual Inspection of Tall Structures
17:05	ZHAO Lin Shanghai, China	The Investigation of Tornado-induced Loads and Collapse Process of a Cooling Tower by Experiments and Numerical Simulation	ANDRES Matthias Bochum, Germany	Structural Design Aspects of Cooling Tower Retrofitting at Power Plant Rostock
17:30	HUBERT Wolfgang Bochum, Germany	The Impact of Flow Interference in the Design of Power Plant Structures for Wind Loading	DE KREIJ Albert Rotterdam, Netherlands	Two Steps Forward, one Step Back: Development of an Inspection Drone for Chimneys

19:30	Conference Dinner in Playfair Library at the Royal University of Edinburgh					
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	Structural Design		Maintenance and Repair	
	Chair: DE KREIJ Albert		Chair: BOCHICCHIO Victor	
09:00	VANDERCRUYSSSEN David Yorkshire, United Kingdom	Structural Assessment of pre-1975 Natural Draught Cooling Towers	KINGHAM Paul Eversholt, United Kingdom	Replacement of Flues within a Lattice Tower
09:25	RADECKI Denis Terre Haute	Proposed Revisions to ACI 307-08	BREDDERMANN Martin Bochum, Germany	Statics for Ropes on Tower Construction Sites
09:50	WEHR Franziska Wuppertal, Germany	Validation of CICIND Design Concept for Concrete Chimneys near Openings via Nonlinear Shell Analysis	ANGELIDES Michael Athens, Greece	The Significance of Hoisting in the Design and Construction of Large Industrial Structures
10:15	ZHI Xudong Harbin, China	Static and Stability Analysis of Pyramidal Latticed Steel Structural Cylindrical-Frustum Cooling Tower	RUSCH Roger Johannesburg, South Africa	On-Line Refurbishment of a Natural Draught Cooling Tower

10:45	Coffee Break + Exhibition (Coffee sponsored by HADEK)					
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	Demolition		Optimization and Fire	
	Chair: HARTE Reinhard		Chair: HÖFFER Rüdiger	
11:15	FICKLER Nicolas Bochum, Germany	On the Structural Stability of Cooling Towers during Deconstruction	OKE Ashwini Dalheim, Luxembourg	Cloud Computation & Machine Learning Rules Acquisition
11:40	ROST Markus Düsseldorf, Germany	Integral Conventional Demolition Concept for a Cooling Tower	WANG Peng Harbin, China	Configuration Optimization of Indirect Air Cooling Tower with Cylindrical Truncated Cone under Windless Condition
12:05	GIESA Tristan Düsseldorf, Germany	Analysis of Cooling Tower Demolition using a Progressive Damage Model	BISBY Luke Edinburgh, Scotland	Industrial Fire Safety Engineering - From Compliance Testing to Knowledge-Led Design

13:00	Lunch					
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	Closing Session	
	Chair: JUN Daniel	
14:00	McCURDY Colin, Edinburgh, Germany	Goodbye from Edinburgh
14:10	HOFFMEISTER Hermann, Germany ZHAO Lin, China	Presentation of Future Conferences - Hanoi, New Orleans and Shanghai
14:25	JUN Daniel, Germany	Closing Address

15:00	Experience in Edinburgh
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19:00	Dinner in the Scottish Café at the National Gallery
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Time	Saturday, October 12, 2019
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09:00	Departure Conference Venue RADISSON BLU
10:00	Field Trip to the Bridges of the Firth of Forth
13:00	Lunch at Doubletree North Queensferry
17:00	Arrival Conference Venue RADISSON BLU