



ICCT 2016 - Preliminary Program
International Conference on Industrial Chimneys and Cooling Towers
October 5 - 8, 2016, Rotterdam, Netherlands



Rooms	Room A	Room B	Lobby	Restaurant	Euromast Tower Rest.	Ship "de Majesteit"
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Time	Wednesday, October 5, 2016
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15:00	Registration
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19:00	Welcome Reception (sponsored by HADEK, respresented by CICIND member Albert DE KREIJ)
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Time	Thursday, October 6, 2016
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Opening Session - Introductory Lectures	
Chair: HARTE Reinhard	

09:00	HARTE Reinhard, KAEMMER Klaus, Germany	Opening Ceremony
09:10	MEISWINKEL Rüdiger, Kaiserslautern, Germany	Cooling Tower Design and Construction from Yesterday to Today - an Homage to Udo Wittek and his Cooling Tower Activities
09:30	KRÄTZIG Wilfried, Honorary Member of IASS, Bochum, Germany	Influence of Imperfections on the Buckling Safety of Natural Draft Cooling Towers
09:50	ANGELIDES Michael, President of CICIND, Athens, Greece	Ovalling Issues in Chimneys and Silos
10:10	NIEMANN Hans-Jürgen, Bochum, Germany	Effect-oriented Wind Pressure Distributions for Natural Draught Cooling Towers
10:30	SCHMIDT Joachim, Deggendorf, Germany	3D-Print of Cooling Tower Model

10:45	Coffee Break + Exhibition (Coffee sponsored by HADEK)
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Structural Design		Construction Methods		
Chair: NIEMANN Hans-Jürgen		Chair: NOAKOWSKI Pjotr		
11:15	GOULD Philip St. Louis, USA	Effect of Unanticipated Extreme Loads on the Resilience of Chimneys and Cooling Towers	GAJEWSKI Jörg Cologne, Germany	The Chimney to the ARC Waste Incinerator Project, Copenhagen
11:35	RADECKI Denis Portsmouth, USA	Comparison of Concrete Chimney Section Strength Calculations in ACI 307-08 and CICIND 2011	GUEHMANN Christoph Ratingen, Germany	Erection Procedures of 2 x 185 m high Natural Draft Cooling Towers Opole Power Plant
11:55	VANDERCRUYSSSEN David North Ferriby, United Kingdom	Estimation of Resonant Stresses and Dynamic Amplification Factors for Reinforced Concrete Natural Draught Cooling Towers - a Review of VGB-BTR and BS 4485: Part 4 Guidance	ROST Markus Düsseldorf, Germany	Conventional Demolition of Cooling Towers
12:15	WEHR Franziska Wuppertal, Germany	Design and Safety Proof of Concrete Chimneys via Non-linear Shell Analysis	KLEEN Eugen Bottrop, Germany	Acid and Hydrolysis Resistant Concrete
12:35	KILIC Sami Istanbul, Turkey	An Investigation of Opening Reinforcement Configurations for Reinforced Concrete Chimneys	MEINHARDT Christian Berlin, Germany	Experimental Assessment of the Effectiveness of Tuned Mass Damper Systems Applied to Chimneys

13:00	Lunch
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	Structural Design			Thermodynamics		
	Chair: GOULD Philip			Chair: GUAN Zhiqiang		
14:00	JUN Daniel Bochum, Germany	Investigations on Stability Verification by Example of a Recent Indian Cooling Tower		DÖMÖTÖR Zoltán Budapest, Hungary	Natural Draught Concrete Cooling Towers for Heller Dry Cooling Systems – a Brief History and Current Challenges	
14:20	KOCINIAK Michal Ratingen, Germany	Design of Two Neighbouring Cooling Towers in Respect of Soil Conditions and Subsoil Interaction		RUSCH Roger Johannesburg, South Africa	Use of Variable Speed Drives on Mechanical Draft Cooling Tower Fans	
14:40	CONG Peijiang Changchun, China	Study on the Calculation Method for Hyperbolic Cooling Tower Structure under Non-Axisymmetrical Load		GHEZELASHEGI Gholamreza Tehran, Iran	Selecting Optimum Dry Cooling System (ACC or Heller) Based on Ambient Air Temperature and Wind Condition Impacts	
15:00	ANGELIDES Michael Athens, Greece	Design of a Large Cooling Tower under Combined Earthquake and Wind Loading		SUN Yubiao Brisbane, Australia	Mathematical Simulation of Water Spray for Pre-cooling of Inlet Air in Natural Draft Dry Cooling Towers	
15:20	HOU Xian-an Xi'an China	Full-scale Test and Research on Dumping Characteristic of RC Cooling Towers		XIA Lin Brisbane, Australia	Pre-cooling Performance Comparison for the Water Spray System Designed by Two Different NDDCT Numerical Models	

15:45	Coffee Break + Exhibition (Coffee sponsored by HADEK)					
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	Wind Action			Structural Design		
	Chair: HÖFFER Rüdiger			Chair: REID Steven		
16:15	LUPI Francesca Bochum, Germany	Proposals for Harmonization of Methods to Predict the Across-wind Response of Chimneys		LANG Christian Saarbrücken, Germany	Safety Analysis of Imperfect Cooling Tower Shells – Theory and Practical Aspects	
16:35	GUAN Zhiqiang Brisbane, Australia	A Review on Crosswind Effect and Mitigation: a Challenge in Natural Draft Cooling Tower Design		POURAN Omid Wuppertal, Germany	The Effect of Enhanced Temperatures on the Ultimate Limit State of Cooling Tower Shell	
16:55	LI Xiaoxiao Brisbane, Australia	Performance Comparison of the Crosswind Effect on Different Size of Natural Draft Dry Cooling Towers		BOGUSZ Witold Ratingen, Germany	Foundation of a Cooling Tower in Difficult Geotechnical Conditions	
17:15	ZHAO Lin Shanghai, China	Unified Wind-induced Interference Criteria Based on the Reinforcement Envelope of Cooling Towers		HARA Takashi Shunan, Japan	Behaviour of R/C Cooling Tower Shell under Self Weight and Wind Pressure Considering Foundation Settlement	
17:35	KONARSKI Jakub Cottbus, Germany	Applying Magnus Effect to Simulate Pressure on Ribbed Cooling Tower Surface		SHI Jinglong Changchun, China	Steel Natural Draft Cooling Tower Structural and Investment Analysis	

19:00	Conference Dinner					
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Time	Friday, October 7, 2016					
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	Chimney Design		Maintenance and Repair	
	Chair: ANDERSEN Peder		Chair: HOFFMEISTER Hermann	
09:00	DE KREIJ Albert Rotterdam, Netherlands	Chimney Design; 10 Years of Operating Experience in a Variety of Service Conditions	GORE James Midlothian, United Kingdom	Refurbishment of a Concrete Chimney Lining Using a Temporary Bypass Stack
09:20	BOCHICCHIO Victor Somerville, NJ, USA	GRP Chimney Liners for Wet Flue Gas Desulfurization Service – The USA Experience	LECHMAN Marek Warsaw, Poland	Structural Assessment and Repair of a Tall RC Chimney
09:40	MOELLER-JACOBSEN Bo Esbjerg, Denmark	Calculation and Automatic 3D Modelling of Chimneys	BREDDERMANN Martin, Bochum, Germany	Keynotes of the Design and Analysis of Towers and Tanks Irrespective of Wind Load Capacity
10:00	TOKUC Orcun Istanbul, Turkey	Extreme Wind Effects on Structural Reliability of a 100 m Tall RC Chimney	WARNAR Jelle Hengelo, Netherlands	The Installation of a Fiberglass Chimney Liner within the Short Time Frame of 25 Days at the Turow (Poland) Power Plant
10:20	ERNST Rob Nieuwerkerk aan den IJssel, Netherlands	Integration of a Catalyst Bed in a Turbine Exhaust Stack	NOAKOWSKI Piotr Düsseldorf, Germany	Second Life of Masonry Chimneys as Antenna Carriers

10:45	Coffee Break + Exhibition (Coffee sponsored by HADEK)					
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	Maintenance and Repair		Future Developments	
	Chair: BOCHICCHIO Victor		Chair: KRÄTZIG Wilfried	
11:15	EASTMAN Gareth Twyford, United Kingdom	Repairs to and Rebuilding of a 122m High Natural Draught Cooling Tower on the US East Coast	HÖFFER Rüdiger Bochum, Germany	Vibration-based Health Monitoring of Slender Structures
11:35	PFISTER Tobias Bochum, Germany	A Cooling Tower in Eight Pieces - Calculation and Repair of a Heavily Damaged Shell Structure	TAREK Mekhail Aswan, Egypt	Theoretical Investigation of Solar Chimney Power Plant Installed in Aswan City
11:55	REVIRON Nanthilde Aix-en-Provence, France	Corrosion Investigation Programme on 28 French Cooling Tower Shells	TSCHERSICH Markus, Wuppertal, Germany	Design and Construction of a Prototype Solar Updraft Chimney in Aswan/Egypt
12:15	LOUHI Amine Lyon, France	Effect of CFRP Retrofit on the Nonlinear Behavior of Damaged R.C. Cooling Towers under Extreme Wind Loads	ERNST Rob Nieuwerkerk aan den IJssel, Netherlands	Carbon Capture of Coal Fired Power Plants
12:35	DE KREIJ Albert Rotterdam, Netherlands	Cost-benefit Analysis of Removing or Avoiding Flue Gas Reheat in Coal Fired Power Stations with Flue Gas Desulfurization Plants	FRANZIUS Jan-Niklas Stuttgart, Germany	246m High Elevator Test Tower: Applying BIM to Slip Forming Technique

13:00	Lunch					
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	Closing Session - Panel Discussion	
	Chair: EASTMAN Gareth	
14:00	Panel members will be nominated later	Industrial Chimneys and Cooling Towers - what are Common and what are Separate Properties?
14:45	HARTE Reinhard, KAEMMER Klaus	Closing Address

15:30	Guided Tour to the Delta Works
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19:00	Dinner
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Time	Saturday, October 8, 2016
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09:00	Departure Hotel
10:00	Visit of Amsterdam (Rijksmuseum, Boat Tour along the Canals of Amsterdam)
12:00	Lunch
14:00	Visit of Jordaan
17:00	Arrival in Rotterdam