

European-African Conference on Wind Engineering 2017

4-7 July 2017

Conference Programme

Tuesday, July 4 (Day 1) – Keynote Lecture – 9:40-10:40

Prof. Christopher Letchford

Rensselaer Polytechnic Institute (USA)

"My Liege: Wind serving Engineering"

Moderator: Christopher Baker, University of Birmingham, UK

[1] Tuesday, July 4 (Day 1) – 11:10-12:30

Room 1: Bluff body aerodynamics - Square sections

(Chair: Claudio Mannini, University of Florence, Italy)

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| 11:10-11:30 | <u>#166</u> - <i>Experimental wind tunnel tests and numerical analysis of the aerodynamic behaviour of a high tapered obelisk</i>
Luca Amerio, Tommaso Argentini, Luca Bernini, Federico Perotti, Alberto Zasso |
| 11:30-11:50 | <u>#233</u> - <i>Unsteady pressure distributions on a 4:1 rectangular cylinder: comparison of numerical and experimental results using decomposition methods</i>
Amandine Guissart, Thomas Andrianne, G. Dimitriadis, V.E. Terrapon |
| 11:50-12:10 | <u>#129</u> - <i>Computational studies of vortex-induced vibration of a bending 5:1 rectangular cylinder</i>
Dinh Tung Nguyen, David Hargreaves, John Owen |
| 12:10-12:30 | <u>#157</u> - <i>Characterization of the shear layer instability on the 2D square prism</i>
Daniel Moore, Daniel Lander, Chris Letchford, Michael Amitay |

Room 2: Wind energy

(Chair: Olivier Flamand, CSTB, France)

- 11:10-11:30 *#27 - Towards accurate performance prediction of a vertical axis wind turbine operating at different tip speed ratios*
 Abdolrahim Rezaeiha, Ivo Kalkman, Bert Blocken
- 11:30-11:50 *#59 - On the influence of the shape of buildings in urban wind energy harvesting*
 Giulio Vita, Hassan Hemida, Charalampos Baniotopoulos
- 11:50-12:10 *#243 - Wind flow potential above noise barriers for urban wind turbine applications near highways*
 Nikolaos Chrysochoidis-Antsos, Ad van Wijk ★ PHD AWARD CANDIDATE ★
- 12:10-12:30 *#242 - A new wind turbine full of innovative features dedicated to the African wind energy market*
 Jacques Mambour, Patrick Hendrick, Michaël Nahant

Room 3: Wind codes and Equivalent static loads

(Chair: Hrvoje Kozmar, University of Zagreb, Croatia)

- 11:10-11:30 *#220 - Method of determining characteristic values of average and maximum wind pressure from the Carpathians zoning transcarpathian region*
 Roman Kinasz, Yaroslav Huk
- 11:30-11:50 *#156 - A 100 years of along-wind loading provisions for chimneys*
 Jerzy Antoni Zurański, Mariusz Gaczek
- 11:50-12:10 *#183 - The New Hong Kong wind code*
 Andrew Allsop
- 12:10-12:30 *#250 - Adjustment of regulatory documents of the Russian Federation in the field of wind loads on building structures on the basis of learning and adaptation of the Eurocodes requirements*
 Olga Poddaeva, Pavel Churin, Anastasia Fedosova, Oleg Egorychev



LUNCH BREAK



[2] Tuesday, July 4 (Day 1) – 14:00-15:40

Room 1: Natural ventilation

(Chair: Shuyang Cao, Tongji University, China)

- 14:00-14:20 #71 - *Natural ventilation energy saving potential by CFD*
Theodore Stathopoulos, Leon (Liangzhu) Wang, Jun Cheng
- 14:20-14:40 #122 - *Numerical analysis of forced convective heat transfer coefficients at the facades of a low-rise building: influence of wind direction*
Samy Iousef, Hamid Montazeri, Bert Blocken, Pieter van Wesemael
- 14:40-15:00 #227 - *Large eddy simulation of a cross-ventilated building: validation and impact of inflow generators*
Raffaele Vasaturo, Ivo Kalkman, Bert Blocken, Pieter van Wesemael ★
PHD AWARD CANDIDATE ★
- 15:00-15:20 #139 - *Wind tunnel experiments of cross-ventilative cooling in a generic isolated building with heated wall*
Katarina Kosutova, Christina Vanderwel, Twan van Hooff, Bert Blocken, Jan Hensen

Room 2: Wind energy - Harvesting

(Chair: Xavier Amondolèse, Ecole Polytechnique, France)

- 14:00-14:20 #167 - *Turbulence effects on the post-critical response of flutter-based generators*
Luca Pigolotti, Claudio Mannini, Gianni Bartoli
- 14:20-14:40 #169 - *Aerodynamic modification on slender structures for enhancing wind energy harvesting*
Gang Hu, K.T. Tse, K.C.S. Kwok
- 14:40-15:00 #17 - *A comparative wind tunnel study of energy harvesting from galloping and wake galloping of square prisms*
Pascal Hémon
- 15:00-15:20 #73 - *Aerodynamic design of a wind turbine diffuser with openfoam*
Félix Sorribes-Palmer, Angel Sanz-Andres, Sebastián Franchini, Mikel Ogueta

Room 3: Wind codes and Equivalent static loads

(Chair: Benoit Parmentier, CSTC, Belgium)

- 14:00-14:20 #82 - *Wind tunnel measurements and comparisons with coding for a coke warehouse*
Mikel Ogueta-Gutiérrez, David González-Montecino, Félix Sorribes-Palmer, Sebastián Franchini, Ana Malo
- 14:20-14:40 #204 - *Recent advancement in the extraction of Equivalent Static Wind Loads*
Luca Patruno, Mattia Ricci, Stefano de Miranda
- 14:40-15:00 #67 - *A non-Gaussian probabilistic approach for estimating the equivalent static wind load on structures from unsteady pressure measurements in wind tunnel*
Wafaa Kassir, Christian Soize, Jean Vivien Heck, Fabrice De Oliveira
- 15:00-15:20 #239 - *Extensive wind tunnel measurements to explore the conditional expected load method*
Nicolas Blaise, Thomas Andrianne, Vincent Denoël

Room 4: Cables and transmission lines

(Chair: Ashraf El Damatty, University of Western Ontario, Canada)

- 14:00-14:20 #42 - *Role of low-frequency vortices on dry galloping of inclined stay cable*
Hiroshi Katsuchi, Hung Vo Duy, Hitoshi Yamada
- 14:20-14:40 #165 - *Experimental study on multi-mode rain-wind induced vibrations of a flexible cable*
Dong-Lai Gao, Wen-Li Chen, Hui Li
- 14:40-15:00 #103 - *Indoor tests for the aeolian vibration of transmission lines*
Tian Peng, Qiang Xie, Jian Zhang
- 15:00-15:20 #178 - *Galloping instability of a stay cable attached with a viscous damper*
Cung Nguyen, John Macdonald
- 15:20-15:40 #255 - *Similarity criteria for the sectional model of three conductors bundle of power lines at their aeroelastic vibrations*
Andrzej Flaga

COFFEE BREAK

[3] Tuesday, July 4 (Day 1) – 16:10-17:50

Room 1: Extreme values

(Chair: Luca Patruno, University of Bologna, Italy)

- 16:10-16:30 #229 - *Problems and challenges when estimating extreme wind speeds*
Arvid Naess
- 16:30-16:50 #79 - *A method for estimating extreme wind pressure on independent blocks with short-term time history samples*
Qingshan Yang, Danyu Li
- 16:50-17:10 #251 - *Methods of increasing the accuracy of the simulation of wind effects based on preliminary statistical analysis of the frequency of occurrence of different wind forces in the directions*
Olga Poddaeva, Pavel Churin, Anastasia Fedosova, Oleg Egorychev
- 17:10-17:30 #202 - *Peak response of HAWTs to wind and seismic actions*
Alberto Maria Avossa, Cristoforo Demartino, Francesco Ricciardelli

Room 2: Pollutant dispersion - Street canyon flows

(Chair: Eric Savory, University of Western Ontario, Canada)

- 16:10-16:30 #184 - *CFD simulations of near-field pollutant dispersion with different plume buoyancies*
Yoshihide Tominaga, Ted Stathopoulos
- 16:30-16:50 #56 - *Dispersion within and above an array pf blocks in a spatially developing boundary layer*
Vincenzo Sessa, Xie Zheng-Tong ★ PHD AWARD CANDIDATE ★
- 16:50-17:10 #195 - *The effect of the span-wise width of diffusion in the wind tunnel measurement for evaluating the effective stack height*
Hiroki Ono, Koichi Sada
- 17:10-17:30 #248 - *A street canyon vertical mass-exchange model including the influence of upstream flow regime and canyon geometry*
Eric Savory, Laurent Perret, Karin Blackman, Royston Fernandes
- 17:30-17:50 #228 - *Evaluation of computational domain on CFD simulation of flow in a long street canyon under a perpendicular wind direction*
Zhengtao Ai, Cheuk Ming Mak

Room 3: Probabilistic approaches

(Chair: Luca Caracoglia, Northeastern University, USA)

- 16:10-16:30 #113 - *Wind-driven reliability analysis of temporary structures using full-probabilistic method*
 Timothée Lonfils, Benoit Parmentier
- 16:30-16:50 #244 - *Preliminary investigation to assess the application of ductility-based design approach for high rise buildings under extreme wind loads*
 Fouad Elezaby, Ashraf El Damatty
- 16:50-17:10 #237 - *Wind-induced damage loss estimation in tall buildings accounting for directionality effects*
 Laura Ierimonti, Luca Caracoglia, Ilaria Venanzi
- 17:10-17:30 #88 - *Investigation on damage and intervention costs induced by thunderstorm-like winds on tall buildings*
 Luca Caracoglia
- 17:30-17:50 #8 - *Probabilistic optimization of a suspension bridge deck considering correlation among wind related random variables*
 Ibuki Kusano, Aitor Baldomir, José Angel Jurado, Santiago Hernandez

Room 4: Cables and transmission lines

(Chair: Luigi Carassale, University of Genova, Italy)

- 16:10-16:30 #218 - *A corotational finite element formulation to model galloping vibrations of iced conductors*
 Francesco Foti, Luca Martinelli
- 16:30-16:50 #197 - *3DOF galloping analysis based on quasi-steady theory with reference to the aerodynamic stiffness*
 John Macdonald, Mingzhe He
- 16:50-17:10 #253 - *Wind tunnel tests of aerodynamic and aeroelastic interference phenomena of overhead electrical conductors bundle for different cases of their ice / frost / snow covers*
 Andrzej Flaga, Lukasz Flaga, Piotr Krajewski
- 17:10-17:50 #246 - *Analysis of transmission line structures under moving downburst*
 Ahmed Shehata, Ashraf El Damatty

Welcome reception 18:00-19:30

Cocktail in the Entrance Hall of the Conference Center

Wednesday, July 5 (Day 2) – Keynote Lecture – 8:30-9:30

Arch. Paul Vincent

Paul Vincent Architecture (France)

"In search of common sense. A virtuous duality between natural ventilation and working practices"

Moderator: Olivier Flamand, CSTB, France

[4] Wednesday, July 5 (Day 2) – 09:40-10:40

Room 2: Computational Wind Engineering - atmospheric flows

(Chair: Rüdiger Höffer, Ruhr-Universitaet Bochum, Germany)

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|-------------|--|
| 09:40-10:00 | <u>#54</u> - <i>Precursor simulation for LES validation study of the Michelstadt case</i>
Jörg Franke, Thanh Ha Pham |
| 10:00-10:20 | <u>#66</u> - <i>Inflow uncertainty definition for atmospheric flows in rural and urban environments</i>
Clara García-Sánchez, Catherine Gorlé |
| 10:20-10:40 | <u>#118</u> - <i>Sensitivity test of different inflow conditions for CFD simulations of wind flow in urban areas</i>
Alessio Ricci, Massimiliano Burlando, Andrea Freda, Maria Pia Repetto, Ivo Kalkman, Bert Blocken ★ PHD AWARD CANDIDATE ★ |

Room 3: Vegetation and bio-inspired aerodynamics

(Chair: Emmanuel de Langre, Ecole Polytechnique, France)

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|-------------|--|
| 09:40-10:00 | <u>#106</u> - <i>Wind-induced foliage dynamics</i>
Loïc Tadrist, Marc Saudreau, Pascal Hémon, Xavier Amandolèse, André Marquier, Tristan Leclercq, Emmanuel de Langre |
| 10:00-10:20 | <u>#51</u> - <i>On the fluid dynamics of circular cylinders with span-wise waviness</i>
Kai Zhang, Hiroshi Katsuchi, Hitoshi Yamada, Dai Zhou |
| 10:20-10:40 | <u>#6</u> - <i>Reducing losses due to crop lodging</i>
Christopher Baker, Mark Sterling |

Room 4: Damping and vibration mitigation

(Chair: Kazutoshi Matsuda, Kyushu Institute of Technology, Japan)

- 09:40-10:00 #187 - *Evaluation of damping and natural period of tall RC buildings using full-scale data*
Hongjin Kim, Seung-Hoon Shin, Kyung-Jae Shin, Whajung Kim
- 10:00-10:20 #23 - *A force action based interpretation of damping*
Robert McNamara
- 10:20-10:40 #259 - *Method for preliminary design of a viscous damper system, applied to a tall building*
Philippe Duflot, Giovanni Vigano, Vincent Denoël

COFFEE BREAK



[5] Wednesday, July 5 (Day 2) – 11:10-12:30

Room 1: Bluff body aerodynamics - Interferences

(Chair: Mingshui Li, Beijing Jiaotong University, China)

11:10-11:30	<u>#74</u> - <i>In-line oscillation characteristics of two square cylinders in a tandem arrangement</i> Kazutoshi Matsuda, Kusuo Kato, Kentaro Suda, Yuta Nakamura
11:30-11:50	<u>#141</u> - <i>Experimental and numerical aerodynamic optimization of a post-tensioned concrete railway bridge in tandem arrangement with a truss road bridge</i> Luca Amerio, Tommaso Argentini, Daniele Rocchi, Alberto Zasso
11:50-12:10	<u>#164</u> - <i>A low Re flow around four side-by-side circular cylinders</i> MD Mahbub Alam, Qinmin Zheng, Kerry Hourigan
12:10-12:30	<u>#19</u> - <i>Dynamic properties of wind-excited linked tall buildings considering both intra- and inter-building structural couplings</i> Jie Song, Shuguo Liang, Gang Hu

Room 2: Wind-driven rain

(Chair: Yoshihide Tominaga, Niigata Institute of Technology, Japan)

11:10-11:30	<u>#215</u> - <i>Application of CFD simulations of Wind-driven rain (WDR) on the new roof extension for San Mames New Football Stadium</i> Javier Llarena, Lourdes Cabezuelo, Armando Bilbao
11:30-11:50	<u>#96</u> - <i>Field measurements of wind-driven rain: verification and expansion of site wind conditions</i> Vincent Chiu, Hua Ge, Ted Stathopoulos
11:50-12:10	<u>#15</u> - <i>Numerical modelling of wind-blown rain on railway station platforms and mitigation through canopy design</i> Dominic Flynn, Hassan Hemida, Chris Baker
12:10-12:30	<u>#77</u> - <i>Calculation of the driving rain wall factor using ray-tracing</i> Stella Tsoka, Thomas K. Thiis

Room 3: Measuring Techniques

(Chair: Daniele Rocchi, Politecnico di Milano, Italy)

- 11:10-11:30 #44 - *Measuring wind with micro planes*
Simon Watkins, Abdulghani Mohamed, Samuel Prudden, Matthew Marino, Reece Clothier, Alex Fisher
- 11:30-11:50 #186 - *On the use of Irwin probes to measure wall shear stress in rectangular ducts of variable section using Openfoam*
Raquel Faria, Almerindo Ferreira, A.M.G. Lopes, Antonio C. M. Sousa
- 11:50-12:10 #192 - *Experimental and numerical appraisal of wind-induced noise*
Sergey Mijorski, Magnus Lysfjord, Stefano Cammelli, Ganesh Krishnan, Richard Jackett

Room 4: Damping and vibration mitigation

(Chair: Hongjin Kim, Kyungpook National University, Republic of Korea)

- 11:10-11:30 #121 - *A novel fully-coupled computational wind-structure interaction approach for the design of added mass dampers*
Mate Pentek, Roland Wuchner, Kai-Uwe Bletzinger ★ PHD AWARD CANDIDATE ★
- 11:30-11:50 #53 - *Amplitude-dependent damping ratio of a cable-suspended roof identified from full-scale data*
Bo Chen, Xiaohong Wang, Qingshan Yang
- 11:50-12:10 #94 - *Dynamic response of an RC high-rise building under wind load, and energy dissipation systems effect*
Aboubaker Gherbi, Mourad Belgasmia
- 12:10-12:30 #203 - *Flutter suppression using a magnetic vibration absorber*
Arnaud Malher, Xavier Amandolèse, Cyril Touzé, Olivier Doaré, Giuseppe Habib, Gaëtan Kerschen

LUNCH BREAK

[6] Wednesday, July 5 (Day 2) – 14:00-15:40

Room 1: Non-stationary winds

(Chair: Giovanni Solari, University of Genova, Italy)

- 14:00-14:20 #142 - *Pressure distribution over a typical low-rise building under laboratory simulated tornado vortices*
Maryam Refan, Ahmed Elatar, Horia Hangan
- 14:20-14:40 #90 - *Effect of steady stationary laboratory simulated downburst flow on a standard tall building*
Chowdhury Jubayer, Horia Hangan
- 14:40-15:00 #35 - *Threats to people and infrastructure in Poland caused by tornadoes based on the past observations*
Tadeusz Chmielewski
- 15:00-15:20 #249 - *A parametric study of downbursts using a full-scale cooling source model*
Eric Savory, Christopher Oreskovic, Leigh Orf
- 15:20-15:40 #86 - *Statistical analysis of extreme wind speed due to thunderstorm outflows*
Shi Zhang, Maria Pia Repetto, Giovanni Solari, Qingshan Yang **★ PHD AWARD CANDIDATE ★**

Room 2: Computational wind engineering - atmospheric flows

(Chair: Hamid Montazeri, Leuven University, Belgium)

- 14:00-14:20 #245 - *Numerical simulation of WINDEEE dome downburst for open terrain using physical roughness elements*
Ibrahim Ibrahim, Ashraf El Damatty, H. Aboshosha
- 14:20-14:40 #78 - *A new urban test campaign for numerical uncertainty quantification*
Jorge Sousa, Catherine Gorlé
- 14:40-15:00 #104 - *Study of RANS simulation of ABL flow over complex terrains - comparison with LIDAR monitoring at Xiao-Ping-Ding*
Yi-Chao Li, Cheng-Hsin Chang, Tsung-Chin Yang
- 15:00-15:20 #111 - *Numerical modeling of urban microclimate in a real compact area in the Mediterranean region: impact of urban morphology*
Olga Palusci, Hamid Montazeri, Bert Blocken, Paolo Monti, Carlo Cere

Room 3: Façades and cladding

(Chair: Alberto Zasso, Politecnico di Milano, Italy)

- 14:00-14:20 #38 - *Controlling of sun protecting systems at outside glass facades by wind characteristic method*
Hans Ruscheweyh, Reiner Windhövel
- 14:20-14:40 #257 - *Forces and pressure distributions on building facades with a screen: experimental twodimensional studies.*
Andrea Giachetti, Claudio Mannini, Gianni Bartoli ★ PHD AWARD CANDIDATE ★
- 14:40-15:00 #47 - *Wind loads on external sun blinds: a case study*
Chris Geurts, Okke Bronkhorst, Carine van Bentum
- 15:00-15:20 #126 - *Experimental investigation on the spatial distribution of wind pressure on building facades. Comparison between time-filtering and area-filtering of wind tunnel data.*
Andrew Allsop, Luca Amerio, Daniele Rocchi, Alberto Zasso
- 15:20-15:40 #115 - *Overall wind loads on large duo-pitch multi-span greenhouses*
Okke Bronkhorst, Carine van Bentum, Chris Geurts, Leo van der Knaap

Room 4: Structural analysis and design

(Chair: Claudio Borri, BBP Engineering, Italy)

- 14:00-14:20 #117 - *Wind force coefficients for H.P.-shaped solid and porous canopy roofs*
Yasushi Uematsu, Yukari Miyamoto, Eri Gavanski
- 14:20-14:40 #230 - *CFD and PIV study of the airflow in and around a saddle-shaped double-roofed stadium*
Rubina Ramponi, Giulia Matteoni, Paul Lynch, Mutlu Ucuncu, Steve Walker
- 14:40-15:00 #234 - *Wind-induced vibrations of torsionally coupled systems with soil-foundation-structure interaction*
Ming-Yi Liu, Sheng-Yin Huang
- 15:00-15:20 #26 - *Experimental investigation on the wind force of a scaffolding system*
Fuh-Min Fang, Shi-Xian Chang, Chen-Yang Chung, Yi-Chao Li, Chern-Hwa Chen

COFFEE BREAK

[7] Wednesday, July 5 (Day 2) – 16:10-17:50

Room 1: Non-stationary winds

(Chair: Eric Savory, University of Western Ontario, Canada)

- 16:10-16:30 #28 - *Analysis of the duration of high winds during hurricanes*
Gregory Kopp, Sihan Li, Hanping Hong
- 16:30-16:50 #235 - *A probabilistic framework for risk assessment of electric power transmission lines subjected to hurricanes*
Abdullahi Salman, Yue Li
- 16:50-17:10 #176 - *Influence of background winds and storm motion on downburst outflow*
Djordje Romanic, Dan Parvu, Horia Hangan
- 17:10-17:30 #247 - *Lessons learned from testing of a transmission line model at the WindEEE dome under simulated downbursts*
Amal Elawady, Ashraf El Damatty ★ PHD AWARD CANDIDATE ★
- 17:30-17:50 #3 - *A paramedic study of the effect of a tornado generator's geometric design on the flow field*
Stefanie Gillmeier, Mark Sterling, Hassan Hemida ★ PHD AWARD CANDIDATE ★

Room 2: Computational Wind Engineering - loads on structures

(Chair: Luca Patruno, University of Bologna, Italy)

- 16:10-16:30 #225 - *Large eddy simulations for wind loads assessment: benchmark on a high-rise building*
Mattia Ricci, Luca Patruno, Ivo Kalkman, Bert Blocken, Stefano de Miranda ★ PHD AWARD CANDIDATE ★
- 16:30-16:50 #72 - *Large-eddy simulations of the atmospheric boundary layer for calculating wind loads on buildings*
Giacomo Lamberti, Clara García-Sánchez, Catherine Gorlé
- 16:50-17:10 #50 - *Comparison of CFD simulations with a benchmark wind tunnel test for wind loads*
Okke Bronkhorst, Carine van Bentum, Chris Geurts, Corina Hulsbosch-Dam
- 17:10-17:30 #174 - *CFD study towards a solution for wind speed gradient reduction by large wind screens near a car carrier port*
Wendy Janssen, Bert Blocken, Herm Jan van Wijhe

17:30-17:50	<u>#125</u> - <i>Vortex induced vibrations on circular structures: Numerical modeling of aerodynamic loads.</i> Ulf Winkelmann, Anina Šarkić Glumac, Francesca Lupi, Ruediger Hoffer
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Room 3: Photovoltaic and solar arrays

(Chair:)	
16:10-16:30	<u>#58</u> - <i>Peak negative pressure coefficients on low-tilted solar arrays mounted on flat roofs: The effects of building size and model scale</i> Thorsten Kray, Jantje Paul
16:30-16:50	<u>#34</u> - <i>Wind tunnel tests to study the wind loads on and reduce the ballast needed for solar energy systems on flat roofs</i> Marcel van Uffelen
16:50-17:10	<u>#45</u> - <i>Wind loads on solar arrays mounted on flat roofs</i> Jingxue Wang, Qingshan Yang, Yukio Tamura
17:10-17:30	<u>#177</u> - <i>Comparison between wind tunnel and computational predictions of the shear velocity distribution along a flat roof with solar panels</i> Almerindo Ferreira, Thomas Thiis
17:30-17:50	<u>#48</u> - <i>Full scale investigation of wind loads on a light weight building-integrated photovoltaic system</i> Chris Geurts, Okke Bronkhorst, Carine van Bentum

Room 4: Structural analysis and design

(Chair: Jonas Snaebjörnsson, Reykjavik University, Iceland)	
16:10-16:30	<u>#232</u> - <i>Quantification of effect of inclined webs on flutter performance of box girders</i> Qi Wang, Haili Liao, Mingshui Li
16:30-16:50	<u>#119</u> - <i>Experimental verification of a generic buffeting load model for high-rise and long-span structures</i> Robin George Srouji, Kristoffer Hoffmann, Svend Ole Hansen
16:50-17:10	<u>#205</u> - <i>The Third Bosphorus Bridge: the aerodynamic stability of the steel segments during lifting operations</i> Vincent de Ville de Goyet, Yves Duchene, Thomas Andrianne
17:10-17:30	<u>#208</u> - <i>The Third Bosphorus Bridge: its behavior under wind during different erections stages and the final configuration</i> Vincent de Ville de Goyet, Yves Duchene, Arnaud Propson, Christophe Peigneux

17:30-17:50

#95 - *Nonlinear behavior of high-rise steel building under wind effect taking into account soil-structure interaction*
Souhaib Bougherra, Mourad Belgasmia

Gala Diner 19:00-23:00

at the Ferme du Banneway

Bus leaving from the Guillemins station at 19:00

[8] Thursday, July 6 (Day 3) – 08:40-09:40

Room 1: Fluid Structure Interaction - Bridges

(Chair: Pascal Hémon, Ecole Polytechnique, France)

- 08:40-09:00 #83 - *Flutter and galloping of bridge decks with roadway wind barriers*
Andrija Buljac, Hrvoje Kozmar, Stanislav Pospíšil, Michael Macháček
- 09:00-09:20 #92 - *Tacoma Narrows Bridge flutter - Theory, experiment and full-scale observation*
Maja Rønne, Marlene Grundvig Malthe, Allan Larsen **★ PHD AWARD CANDIDATE ★**
- 09:20-09:40 #206 - *The Third Bosphorus Bridge: from a cardboard model to reality by the way of the wind tunnel laboratory*
Vincent de Ville de Goyet, Thomas Andrianne

Room 2: Optimization and advanced tools

(Chair: Casimir Katz, SOFiSTiK AG, Germany)

- 08:40-09:00 #154 - *Application of surrogate models in the characterization of the aerodynamic response of streamlined bridge decks*
Miguel Cid Montoya, Felix Nieto, Ibuki Kusano, Antonio J. Álvarez, Santiago Hernandez, José Ángel Jurado
- 09:00-09:20 #93 - *A multi-fidelity shape optimization via surrogate modeling for civil structures*
Fei Ding, Ahsan Kareem, Seymour Spence
- 09:20-09:40 #13 - *Optimum design of cable stayed bridges with single box deck considering aeroelastic and structural constraints*
Miguel Cid Montoya, Santiago Hernández, Félix Nieto **★ PHD AWARD CANDIDATE ★**

Room 4: Human comfort

(Chair: Hassan Hemida, University of Birmingham, UK)

- 08:40-09:00 #7 - *The safety of pedestrians, cyclists and high sided vehicles in urban areas in windy conditions*
Christopher Baker, Andrew Quinn, Hassan Hemida, Mark Serling, Mike Jesson, Dominic Flynn
- 09:00-09:20 #41 - *The effect of urban geometry of London on pedestrian level wind speeds - A quantitative analysis*
Leonidas Tsichritzis, Marialena Nikolopoulou **★ PHD AWARD CANDIDATE ★**

09:20-09:40

#175 - *The effects of lift-up design of high-rise buildings on the pedestrian-level wind environment*
Xuelin Zhang, Asiri Weerasuriya, K.T. Tse, K.C.S. Kwok, Cheuk Ming Mak, Jianlei Niu

Thursday, July 6 (Day 3) – Keynote Lecture – 8:50-9:50

Prof. Luigi Carassale

Università degli Studi di Genova (Italy)

"Processing wind pressure data: from art towards an industrial standard"

Moderator: Ahsan Kareem, University of Notre-Dame, USA

[9] Thursday, July 6 (Day 3) – 11:10-12:30

Room 1: Fluid Structure Interaction

(Chair: Thomas Andrianne, University of Liège, Belgium)

- 11:10-11:30 #231 - *Wind tunnel tests and performance improvement of a conveyor suspension bridge*
Francesco Dorigatti, Christopher Scollard, Guy Larose, Pierre-Olivier Dallaire
- 11:30-11:50 #143 - *Numerical simulation of the torsional stall flutter of a parabolic trough solar collector*
Michael Andre, Roland Wuchner, Kai-Uwe Bletzinger
- 11:50-12:10 #198 - *Unsteady forces on flat-plate and panel due to a sudden variation of the wind direction*
Xavier Amandolèse, Yuelong Yu, Yingzheng Liu
- 12:10-12:30 #128 - *2D URANS simulation of aerodynamic loads on a pitching airfoil: Impact of computational parameters*
Feiyu Geng, Ivo Kalkman, Akke Suiker, Bert Blocken

Room 2: Special structures and methods

(Chair: Chris Geurts, TNO, Netherlands)

- 11:10-11:30 #108 - *Wind tunnel tests and numerical investigation in order to optimize the system of demolition of a nuclear power plant chimney*
Maria Esposito, Maurizio Arena, Leandro Maio, Antonio Dimatteo, Stefano Castelli, Leonardo Lecce
- 11:30-11:50 #209 - *The Louis Vuitton Foundation and its design under turbulent wind*
Vincent de Ville de Goyet, Amaury Leroy
- 11:50-12:10 #87 - *Proper orthogonal decomposition of random pressure fields acting on tall buildings*
Luca Vacca, Stefano Cammelli, Yin Fai Li
- 12:10-12:30 #116 - *A solid-fluid coupling simulation for wind borne debris: auto-rotating flat plate and flying flat plate*
Kazuaki Uchibori, Tetsuro Tamura

Room 3: Full-scale measurements

(Chair: Elsa Caetano, University of Porto, Portugal)

- 11:10-11:30 #65 - *Evaluation of Wind-induced response predictions of a long-span suspension bridge using full-scale measurements*
 Aksel Fenerci, Ole Øiseth ★ PHD AWARD CANDIDATE ★
- 11:30-11:50 #222 - *Identification of a slight vortex induced vibration episode at the Grande Ravine Viaduct*
 Fernando Bastos, Elsa Caetano, Álvaro Cunha, Xavier Cespedes, Olivier Flamand
- 11:50-12:10 #150 - *Measurements of low-frequency wind spectral properties relevant to design of long-span bridges*
 Etienne Cheynet, Jasna Bogunović Jakobsen, Jónas Thór Snaebjörnsson
- 12:10-12:30 #55 - *Quantitative relationship between surface roughness parameters obtained from building information database and wind turbulence near the ground surface*
 Ryoji Sasaki, Yasushi Uematsu

Room 4: Wind and structures: special stochastic analysis

(Chair: Jiri Naprstek, Inst. Theoretical and Applied Mechanics, Czech Republic)

- 11:10-11:30 #226 - *Closed-form prediction of the wind-induced fatigue of structures*
 Maria Pia Repetto, Michela Damele
- 11:30-11:50 #163 - *Coupled aerodynamic and hydrodynamic response of a long span bridge suspended from floating towers*
 Jungao Wang, Jónas Thór Snaebjörnsson, Jasna Bogunović Jakobsen, Etienne Cheynet
- 11:50-12:10 #172 - *Aeroelastic stability of a two-degrees of freedom system with additive and multiplicative narrow band random noises*
 Jiri Naprstek, Stanislav Pospíšil
- 12:10-12:30 #240 - *rotational stability of a stochastic oscillator*
 Hélène Vanvinckenroye, Vincent Denoël



LUNCH BREAK



[10] Thursday, July 6 (Day 3) – 14:00-15:40

Room 1: Fluid Structure Interaction - VIV

(Chair: Francesca Lupi, Ruhr-Universität Bochum, Germany)

14:00-14:20	<u>#170</u> - <i>Modeling of vortex-induced vibrations of an elongated rectangular cylinder through wake-oscillator models</i> Antonino Maria Marra, Claudio Mannini, Gianni Bartoli
14:20-14:40	<u>#144</u> - <i>Aeroelastic forces in vortex-induced vibrations: critical analysis based on wind tunnel experiments</i> Francesca Lupi, Hans-Juergen Niemann, Ruediger Hoeffer
14:40-15:00	<u>#214</u> - <i>Interference of vortex-induced vibration and galloping of a rectangular cylinder in turbulent flow</i> Claudio Mannini, Antonino Maria Marra, Tommaso Massai, Gianni Bartoli

Room 2: Computational Wind Engineering - atmospheric flows

(Chair: Hamid Montazeri, Leuven University, Belgium)

14:00-14:20	<u>#110</u> - <i>Steady RANS simulation of the homogeneous neutrally stratified atmospheric boundary layer</i> Mihael Cindori, Franjo Juretić, Hrvoje Kozmar, Ivo Dzijan
14:20-14:40	<u>#80</u> - <i>RANS turbulence model form uncertainty quantification for the flow around a wall-mounted cube</i> Stéphanie Zeoli, Laurent Bricteux, Catherine Gorlé
14:40-15:00	<u>#182</u> - <i>Large eddy simulation of pressure fluctuations on a surface-mounted cube</i> Romain Guichard
15:00-15:20	<u>#210</u> - <i>Large-eddy simulations of flow around a high-rise building: Validation and sensitivity analysis on turbulent statistics</i> Tsubasa Okaze, Hideki Kikumoto, Hiroki Ono, Masashi Imano, Takanasa Hasama, Takeshi Kishida, Keisuke Nakao, Naoki Ikegaya, Yuichi Tabata, Yoshihide Tominaga

Room 3: Wind tunnel testing

(Chair: Thorsten Kray, I.F.I. Institut für Industriaerodynamik GmbH, Germany)

- 14:00-14:20 #24 - *Wind tunnel testing of bridge deck section models with a new forced vibration rig*
Bartosz Siedziako, Ole Øiseth, Anders Rønnquist
- 14:20-14:40 #60 - *Identifying aerodynamic derivatives of a slotted box girder in a forces vibration set up using a harmonic and arbitrary motion*
Henrik Skyvulstad, Bartosz Siedziako, Ole Øiseth
- 14:40-15:00 #112 - *Time domain modelling of self-excited aerodynamic forces for bridge decks. An experimental study*
Ole Øiseth, Bartosz Siedziako, Yuwang Xu
- 15:00-15:20 #238 - *Experimental and numerical studies on suppression of vortex-induced vibrations of twin box girders by central grids*
Qiang Zhou, Junxin Wang, Haili Liao, Hongmiao Jing, Mingshui Li
- 15:20-15:40 #131 - *Study on extraction parameters of flutter derivatives for the development of a time-domain formulation of self-excited forces*
Sébastien Maheux, Sébastien Langlois, Fédéric Légeron *** PHD AWARD CANDIDATE ***

Room 4: Human comfort

(Chair: Bert Blocken, TU Eindhoven , Netherland)

- 14:00-14:20 #147 - *Numerical and wind-tunnel evaluation of ventilation conditions in a real compact heterogeneous urban area*
Nestoras Antoniou, Hamid Montazeri, Hans Wigo, Marina Neophytou, Bert Blocken, Mats Sandberg
- 14:20-14:40 #18 - *The effect of changing the windward wall geometry of traditional wind tower (wind catcher) on aerodynamic behavior and natural ventilation in arid regions*
Nasreddine Sakhri, Abdeljebar Moussaoui, Belkacem Draoui, Aicha Choumane
- 14:40-15:00 #252 - *The effects of green features on natural ventilation in buildings*
Cheuk Ming Mak, Hai Ming Wong
- 15:00-15:20 #256 - *Improvement of pedestrian level wind comfort near complex of high-rise buildings in Warsaw by using wind protection shields*
Andrzej Flaga, Agnieszka Porowska, Renata Klaput

COFFEE BREAK

[11] Thursday, July 6 (Day 3) – 16:10-17:50

Room 1: Fluid Structure Interaction - Buildings

(Chair: Gianni Bartoli, University of Florence, Italy)

- 16:10-16:30 #98 - *Wind-induced structural forces on MWFRS of low-rise buildings with a 4:12 hipped roof*
Shuai Shao, Yuji Tian, Qingshan Yang, Ted Stathopoulos ★ PHD AWARD CANDIDATE ★
- 16:30-16:50 #188 - *Wind tunnel study of interference effects between twin chimney stacks on spatial distribution of wind loads*
Jiadong Zeng, Mingshui Li ★ PHD AWARD CANDIDATE ★
- 16:50-17:10 #236 - *Interference effects between two elliptic towers: wind tunnel experiments combined with CFD analyses*
Michal Franek, Nicolas Blaise, Thomas Andrianne
- 17:10-17:30 #101 - *Aero-elastic behavior of high-rise buildings under downstream interference effects*
Yuan-Lung Lo, Yong Chul Kim, Akihito Yoshida
- 17:30-17:50 #193 - *Fluid-structure interaction analysis of high-rise building with inner balcony and corner cut*
Takamasa Hasama, Yoshiaki Itoh, Manabu Yamamoto, Toshihide Saka, Koji Kondo, Tetsuro Tamura, Mitsuo Yokokawa

Room 2: Lidar measurement

(Chair: Jasna Bogunovic Jakobsen, University of Stavanger, Norway)

- 16:10-16:30 #149 - *Wind turbulence measurements above the sea in an open fjord inlet using long-range synchronized lidars*
Etienne Cheynet, Jasna Bogunović Jakobsen, Jónas Thór Snaebjörnsson, Guillaume Lea, Benny Svárdal, Jakob Mann, Michael Courtney
- 16:30-16:50 #158 - *Measurement of the wind tunnel simulated boundary layer characteristics using short-range WindScanner Lidars*
Alberto Zasso, Stefano Giappino, Torben Mikkelsen, Mikael Sjöholm, Nikolas Angelou
- 16:50-17:10 #201 - *Vertical mean wind profiles identification using Wind Lidars: an application to the area of Lamezia Terme*
Cristoforo Demartino, Alberto Maria Avossa, Francesco Ricciardelli, Claudia Roberta Calidonna

Room 3: Lattice structures and scaffoldings

(Chair: Vincent de Ville de Goyet, BE Greisch, Belgium)

16:10-16:30	<u>#162</u> - <i>Investigation of crosswind-induced load effects on free-standing lattice towers</i> Ileana Calotescu, Andrea Freda, Giovanni Solari
16:30-16:50	<u>#179</u> - <i>Wind flow patterns around scaffoldings from full-scale measurements</i> Paulina Jamińska-Gadomska, Tomasz Lipecki, Jarosław Bęc, Ewa Blazik-Borowa
16:50-17:10	<u>#180</u> - <i>In-situ measurements of wind action on scaffoldings</i> Paulina Jamińska-Gadomska, Tomasz Lipecki, Jarosław Bęc, Ewa Blazik-Borowa
17:10-17:30	<u>#114</u> - <i>Automatized structural optimization of lattice towers using realistic wind loads</i> Mirko Friehe, Frank Kemper

Room 4: Human comfort

(Chair: Cheuk Ming Mak, Hong Kong Polytechnic University, Hong Kong)

16:10-16:30	<u>#132</u> - <i>The use of CFD vs. wind tunnel testing in wind microclimate assessments</i> Krishan Jayyaratnam, Ruth Shilston, Daniel Hackett
16:30-16:50	<u>#84</u> - <i>Uncertainty quantification of an integral model and a CFD model to predict natural ventilation in Stanford's Y2E2 building</i> Giacomo Lamberti, Catherine Gorlé
16:50-17:10	<u>#145</u> - <i>Design of the Citadel of Bonifacio urban area through experimental and numerical assessment of pedestrian comfort</i> Sylvain Aguinaga, Stephane Sanquer, Dominique Dias, Marc Dufresne de Virel, Julien Guilhot, Cécile Nguyen
17:10-17:30	<u>#130</u> - <i>Revisiting the London wind climate</i> Daniel Hackett

Award Ceremony 18:00-18:45

The Wind Engineer Contest – The PhD Award – Le Prix Innovant – Closing speeches

[12] Friday, July 7 (Day 4) – 08:40-10:40

Room 1: Debris, erosion, sand, snow

(Chair: Mark Sterling, University of Birmingham, UK)

08:40-09:00	<u>#2</u> - <i>Debris path in tornado-like vortices</i> Frederick Bourriez, Mark Sterling, Chris Baker
09:00-09:20	empty slot
09:20-09:40	<u>#171</u> - <i>A new measurement approach to analyse aeolian particle deposition with a 3D photogrammetry technique in the boundary layer wind tunnel</i> Cornelia Kalender, Volkmar Görnandt, Yi Wang, Simon Kosse, Ruediger Hoeffer
09:40-10:00	<u>#217</u> - <i>Experimental investigation of snow accumulation</i> Jennifer Fiebig, Holger Hundborg Koss
10:00-10:20	<u>#64</u> - <i>Numerical modeling of ice accretion shape due to freezing precipitation on engineering structures</i> Krzysztof Szilder

Room 2: Sports aerodynamics

(Chair: Thierry Marchal, ANSYS Belgium, Belgium)

08:40-09:00	<u>#99</u> - <i>A progressive adoption of CFD for sport engineering: from motorsports to athlete-specific modeling</i> Thierry Marchal
09:00-09:20	<u>#11</u> - <i>Numerical analysis of drag of different cyclist positions for hill descent</i> Bert Blocken, Thijs van Druenen, Yasin Toparlar, Thomas Andrianne, Thierry Marchal
09:20-09:40	<u>#29</u> - <i>Numerical analysis of the aerodynamics of cyclists during team time trial rotation</i> Thijs van Druenen, Yasin Toparlar, Bert Blocken, Thomas Andrianne
09:40-10:00	<u>#39</u> - <i>Numerical analysis of aerodynamic forces acting on a couple of cyclists in cross wind conditions</i> Fabio Malizia, Hamid Montazeri, Peter Hespel, Bert Blocken, Thomas Andrianne
10:00-10:20	<u>#43</u> - <i>An investigation of tandem cycling aerodynamics</i> Paul Mannion, Yasin Toparlar, Bert Blocken, Magdalena Hajdukiewicz, Thomas Andrianne, Eoghan Clifford

- 10:20-10:40 **#69** - *Aerodynamic interaction between a motorcycle and cyclist in shifted configurations*
 Yasin Toparlar, Bert Blocken, Thomas Andrianne

Room 3: Trains and vehicle aerodynamics

- (Chair: Dominic Flynn, University of Birmingham, UK)
- 08:40-09:00 **#5** - *The calculation of train stability in tornado winds*
 Christopher Baker
- 09:00-09:20 **#16** - *A full-scale experimental study of freight train aerodynamics*
 David Soper, Chris Baker
- 09:20-09:40 **#20** - *The aerodynamic flow beneath a high speed train: A numerical and experimental analysis*
 Dominic Flynn, David Soper, Adam Jackson, Hassan Hemida, Chris Baker
- 09:40-10:00 **#89** - *Cross-Wind load effects on different vehicle body geometries*
 Kaustav Bhadra, Sabareesh Geetha Rajasekharan, Ram Chandra Murthy K.
- 10:00-10:20 **#9** - *Aerodynamic and hydrodynamics aspects of the operation of trains through floodwater*
 Chris Baker, Hassan Hemida, Andrew Quinn, Mike Jenson, Dominic Flynn
- 10:20-10:40 **#36** - *Aerodynamic force on railway vehicles on an embankment in a turbulent boundary layer flow and a smooth flow*
 Yuhei Noguchi, Minoru Suzuki, Koji Nakade

COFFEE BREAK

[13] Friday, July 7 (Day 4) – 11:10-12:30

Room 1: Wind tunnel design or re-design

(Chair: Olivier Flamand, CSTB, France)

- 11:10-11:30 #185 - *Inflatable walls for wind tunnels*
 Olivier Flamand, Anthony Couzinet, Jean-Christophe Thomas
- 11:30-11:50 #212 - *Jules Verne 2.0, renewal of a large wind tunnel facility*
 Pierre Palier, Jean-Paul Bouchet, Sylvain Aguinaga, Anthony Couzinet,
 Philippe Delpech
- 11:50-12:10 #219 - *Benchmark for self-accreditation*
 Holger Hundborg Koss, Leika D. Jørgensen, Per J. Jørgensen, Morten
 K. Rasmussen

Room 2: Wind Turbines

(Chair: Allan Larsen, COWI, Denmark)

- 11:10-11:30 #107 - *Effects of wind-wave misalignment on the dynamic response of
an offshore wind turbine in highly nonlinear waves*
 Agota Mockute, Enzo Marino, Claudio Borri
- 11:30-11:50 #258 - *Design methods to assess the resistance of offshore wind turbine
structures impacted by a ship*
 Sara Echeverry, Hervé Le Sourne, Andreea Bela, Timothée Pire,
 Philippe Rigo
- 11:50-12:10 #22 - *Determination of aerodynamic damping and vortex-shedding
correlation length of wind turbine towers based on wind tunnel experi-
ments with high frequency force balance (HFFB) and forced-oscillations
methods*
 Robert Fontecha, Frank Kemper, Markus Feldmann

Room 3: Field measurement

(Chair: Ole Øiseth, NTNU, Norway)

- 11:10-11:30 #109 - *Turbulence structures around the Rock of Gibraltar*
 Elvin Hii, Kevin Gouder, Stefano Cammelli, David Hankin
- 11:30-11:50 #189 - *Experimental investigation of wind-induced responses consid-
ering interference of twin chimney stacks*
 Mingshui Li, Ruwei Ma, Bibo Zhong
- 11:50-12:10 #25 - *Field monitoring of the forth road bridge*
 John Owen, Xiaolin Meng

12:10-12:30

#57 - *Wind field characteristics at Hardanger Bridge site: comparison of wind tunnel terrain model tests with full-scale measurements*
Tor Martin Lystad, Aksel Fenerci, Ole Øiseth

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