

ACWE Preliminary Agenda: May 21-24, 2017 Gainesville, FL, USA **Last Updated May 11, 2017**

Date				Sunday, May 21, 2017				
3:00pm-5:00pm		Registration/Check-In at UF Hilton Conference Center						
5:00pm-7:00pm		Welcome Reception at Florida Museum of Natural History						
Date		Monday, May 22, 2017		Tuesday, May 23, 2017		Wednesday, May 24, 2017		
8:00am-9:00am		Continental Breakfast and Registration/Check-in						
9:00am-10:00am		<p>Keynote: Dr. Greg Kopp</p> <p>-Professor and Associate Dean of Graduate and Postdoctoral Studies</p> <p>-Western University, Canada</p> <p>Aerodynamics of low-rise buildings in tornadoes: Can Boundary layer wind tunnels give us everything we need?</p>	<p>Keynote: Dr. Peter Vickery, P.E.</p> <p>-Principal Engineer</p> <p>-Applied Research Associates</p> <p>Tornado Damage Modeling: Understanding the Role of Atmospheric Pressure Change, Wind Directionality, and Transient Wind Field Intensity</p>	<p>Keynote: Dr. Bert Blocken</p> <p>-Professor</p> <p>-Department of the Built Environment, Eindhoven University of Technology, The Netherlands & Department of Civil Engineering, KU Leuven, Belgium</p> <p>LES above RANS in computational wind engineering: a forgone conclusion?</p>				
10:00am-10:15am		Networking Break						
10:15am-11:45am		<p>Concurrent Sessions #1</p> <p>Powell Lab Tour #1 (sign up required at registration)</p> <p><i>Bluff Body Aerodynamics I</i></p>	<p>Concurrent Sessions #4</p> <p>Powell Lab Tour #4 (sign-up required at registration)</p> <p><i>Tornadoes I</i></p>	<p>Concurrent Sessions #7</p> <p>Powell Lab Tour #7 (sign-up required at registration)</p> <p><i>Tornadoes IV</i></p>				
		<ul style="list-style-type: none"> • [7693] Motion-Induced Wind Forces of a Slender Prism: Z. Chen, K.T. Tse, K.C.S. Kwok • [7601] Characteristics of the instability of a shear layer formed on a square prism: D. Lander, D. Moore, M. Amitay, C. Letchford • [6531] Experimental Investigation of Vortex-Induced Vibration of a Rectangular Section: M. Mashnad • [7588] A New Framework for Vehicle Safety Assessment Under Hazardous Driving Conditions: S. Chen, G. Hou 	<ul style="list-style-type: none"> • Tornado Damage Analysis of Residential Buildings Coupled with Electrical Power Network for the 2011 Joplin Tornado: N. Attary, J. W. van de Lindt, M. Koliou, S. Smith and V. U. Unnikrishnan • Effect of laboratory simulated dynamic and translating downburst on the pressure distributions of a low-rise building: J. Chowdhury, H. Hangan • Methodology to Estimate Tornado Wind Speeds Based on Site-Specific Damage Observations: P. Datin • A Predictive Model for Structural Tornado Damage to Residential Structures Using Housing Data from the 2011 Joplin, MO Tornado: A. Egniew, Dr. D. Prevatt, D. Roueche • Reported wind damage in Uruguay and registered wind speeds during 2014: V. Durañona, S. Orteli, A. Guggeri 	<ul style="list-style-type: none"> • Cost-Effectiveness of Tornado Resistant Construction: D. Roueche, B. Wood, D. Prevatt • Study on Most Unfavorable Translating Paths of Tornadoes for Tornado-resistant Design of Civil Structures: J. Zu, G. Yan, K. Isaac • WRF Simulation of Strong Wind Gust Induced by Tornado-genesis Storm: T. Tao, T. Tamura, H. Kawai • Surface pressures dependency on Reynolds number and swirl ratio in tornado vortices: M. Refan, H. Hangan • Improved Characterization of Damage Patterns from Idealized Tornado Models: D. Rhee, F. Lombardo 				

Date	Monday, May 22, 2017	Tuesday, May 23, 2017	Wednesday, May 24, 2017
	<p data-bbox="430 110 573 134"><i>Meteorology I</i></p> <ul data-bbox="241 159 779 630" style="list-style-type: none"> • [7625] Genesis and Track Simulation of Asia Typhoons: <i>S. Polamuri, W. Pang</i> • [6466] State-of-the-art planetary boundary layer modeling and the application of ASCE 7 provisions to super-tall buildings: <i>E. Simiu, A. Heckert, D. Yeo</i> • [7653] On the use of the weather research and forecasting model to define inflow uncertainty for atmospheric boundary layer simulations: <i>C. Garcia-Sanchez, C. Gorle</i> • [6532] Atmospheric Boundary Layer Conditions in an Open-Circuit Low-Speed Wind Tunnel in Colombia: <i>M. E. Delgadoa, J. Marulandab, P. Thomson</i> • [5353] Wind Data Performance for Estimating Wind Loads on Structures: <i>M. Phelps</i> 	<p data-bbox="997 110 1241 134"><i>Catastrophe Modeling I</i></p> <ul data-bbox="821 215 1419 605" style="list-style-type: none"> • Generalized wind loading chain: A time frequency perspective: <i>A. Kareem, Y. Guo, L. Hu</i> • Effect of Hurricane Wind Direction on Loss Estimation: <i>B. Alduse, W. Pang</i> • Hurricane Storm Surge Content Damage and Additional Living Expenses: <i>M. Baradaranshoraka, J.P. Pinelli, K. Gurley</i> • Characteristic Events Based Typhoon Catastrophe Risk Assessment Model for Japan: <i>F. Habte and N. Kishi</i> • Hurricane loss analysis of wood-frame structures in Florida: <i>G. Kakareko, S. Jung, O. Arda Vanli, O. Khemici, A. Teclé, M. Khater</i> 	<p data-bbox="1606 110 1866 134"><i>Catastrophe Modeling IV</i></p> <ul data-bbox="1444 256 2039 565" style="list-style-type: none"> • Evaluating the uncertainty of combining wind and storm surge damage in the Florida Public Hurricane Loss Model: <i>M. Baradaranshoraka, J.P. Pinelli, K. Gurley, S. Gulati</i> • Analytical Modeling of Wind damage to Container Stacks at Ports: <i>D. Stedman, R. Vojjala</i> • Probabilistic Model for Wind Pressure on Low-rise Buildings: <i>H. Zhao, M. Grigoriu, K. Gurley</i> • Effects of spatial correlation of wind speed on hurricane wind induced losses: <i>B. Alduse, W. Pang</i>
	<p data-bbox="405 686 598 711"><i>Low-Rise Buildings I</i></p> <ul data-bbox="212 732 810 1130" style="list-style-type: none"> • [6473] Wind Loads on Flat Canopy Roofs: <i>N. Rani, A. K. Ahuja</i> • [6541] Influence of terrain on the uplift loads on low-rise building roofs: <i>F. Arif, G. A. Kopp</i> • [6543] Experimentally validated nonlinear modeling of low-rise building response under wind loading: <i>J. He, F. Pan, C.S. Cai, A. Chowdhury and F.Habte</i> • [7681] Wind Pressure Characteristics on Gable Roofs: <i>X. Dong, C.Jiao</i> • [5553] The spatial pressure distribution on low-rise buildings varies with surface roughness: <i>P. F. Cabán, F. J. Masters</i> 	<p data-bbox="1014 686 1224 711"><i>Low-Rise Buildings IV</i></p> <ul data-bbox="821 776 1419 1101" style="list-style-type: none"> • Leading edge vortex dynamics on a flat roof: <i>P J Richards</i> • Wind-induced structural forces of L- and T-shaped low-rise buildings with hip roofs: <i>S. Shao, T. Stathopoulos, Y. Tian, Q. Yang</i> • Numerical assessment of partial hip roof failures during tornadoes: <i>S. Stevenson, G. Kopp, and A. El Ansary</i> • Estimation of cavity pressures in air-permeable multi-layer systems using a lumped-leakage approach: <i>R. Sreedevi, G. Kopp</i> 	<p data-bbox="1560 686 1913 711"><i>High-Rise and Super-Tall Buildings I</i></p> <ul data-bbox="1434 732 2039 1187" style="list-style-type: none"> • [7612] Wind-induced fatigue behavior of rooftop pinnacles and masts on tall buildings: A Machine Learning approach: <i>M. Jayachandran, A. Kareem, D. Kwon</i> • [7682] Combined Risk Prediction of Wind Loading with Changes in Surrounding Buildings: <i>W. Ashman, L. Reres, H. Le, W. Pang</i> • [7626] A Comprehensive Framework for Performance-Based Wind Engineering of Tall Buildings Considering Wind Direction and Wind Speed: <i>W. Cui, L. Caracoglia</i> • [7569] Estimation of Inelastic Crosswind Response of Tall Buildings using Equivalent Nonlinear Equation Approach: <i>C. Feng, X. Chen</i> • [7655] Combined Risk Prediction of Wind Loading with Changes in Surrounding Buildings: <i>P. Irwin, J. Garber</i>

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	<p><i>Computational Wind Engineering and Cyberphysical Modeling I</i></p> <ul style="list-style-type: none"> • [7657] Assessment of aerodynamic and aeroelastic performance improvement of computationally optimized bridge deck sections using LES and FSI simulations: T. H. Birhane, G. T. Bitsuamlak, J. P. King • [7688] Real-Time Aerodynamics Hybrid Simulation: A Novel Aeroelastic Wind-Tunnel Model for Flexible Bridges: T. Wu, M. Sivaselvan • [7629] CFD application in wind engineering: G. T. Bitsuamlak • [7485] Computational Fluid Dynamics Analysis on the Wake Effect of Bridge Tower on High Side Vehicles: N. Zhang, H. Bosch, J. Shen • [7700] Cyber-physical systems approach to optimization in wind engineering: parapet wall design: M. Whiteman, B. Phillips, P.F. Cabán, F.J. Masters, J.A. Rice, J.R. Davis 	<p>NHERI I</p> <ul style="list-style-type: none"> • Wind Engineering Research at NSF: K. Mehta; P. W. Horn • NHERI Network Coordination Office and Science Plan: J. Ramirez, T. Smith, B. Edge, and W. Holmes • DesignSafe: A Cyberinfrastructure for Data Sharing and Analysis in Natural Hazards Engineering: E. Rathje, C. Dawson, J. Padgett, J.P. Pinelli, D. Stanzione, F. Haan, Jr., and A. Kareem • Processing Data from Hurricane Matthew in DesignSafe.ci: H. Gurram, C. Subramanian, J.P. Pinelli • Overview of the NHERI Center for Computational Modeling and Simulation of the Effect of Natural Hazards on the Built Environment: S. Mahin, C. Crittenton, G. Deierlein, S. Govindjee, A. Kareem, L. Lowes, F. McKenna and M. Schoettler • UW NHERI RAPID Facility: Enabling the Next-Generation of Natural Hazards Reconnaissance: J. Wartman 	<p><i>Wind-Driven Rain, debris and embers</i></p> <ul style="list-style-type: none"> • A Theoretical Model for Rapid Estimates of Rainfall during Tropical Cyclones: R. Snaiki, T. Wu • Framework for Development of Fragilities for Hurricane Wind and Rain Damage to Building Envelopes: A. Memari, A. Shafieezadeh, and D. Prevatt • Interior Damage of Residential Buildings due to Wind-Driven Rain Intrusion: F. Raji, N. Miller, I. Zisis, J.P. Pinelli, A. Chowdhury • Ember flight modeling and experiments: N. B. Kaye and A. Tohidi • Critical Scouring Velocity of Loosely Laid Roof Aggregate: L. Doddipatla
	<p><i>Codes and Standards I</i></p>	<p><i>Codes and Standards IV</i></p>	<p><i>Performance Based Design (PBD) Methodology for Tornado Storm Shelters</i></p>
	<ul style="list-style-type: none"> • [6515] Wind Loads on Roof-Mounted Solar Panels Comparison of Codes and Standards: H. Alrawashdeh and T. Stathopoulos • [7595] Aerodynamic Response of Roof-mounted Photovoltaic Panels: A. Naeiji, R. Greenbaum, I. Zisis, A. Chowdhury, P. Irwin • [6507] Wind Load Provisions for Roofs: Low-Rise Industrial and Institutional Buildings: H. Alrawashdeh and T. Stathopoulos • [6524] Thunderstorm Design Wind Speeds Applicable to Transmission Lines: H. Aboshosha • [6545] Experimental Investigation of Wind Effects on Canopies Attached to Mid-Rise Buildings: A. Naeiji, M. Matus, I. Zisis 	<ul style="list-style-type: none"> • History of and Effects of Changes in the Florida Building Code: D. Stedman, P. Datin, R. Vojjala • A review of Brazilian wind data: M. Vallis, A.M. Loredou-Souza, L.C. Watrin • Wind load factors and design mean recurrence intervals of wind effects for use in the wind tunnel procedure: E. Simiu, A. Pintar, D. Duthinh, and DongHun • Wind Performance Based Design – A Case Study: A. Ashrafi, A. De Luca, J. Garber, and J. Galsworthy • Design Wind Pressure by Peaks-over-Threshold Method: Implementation and Comparative Performance: D. Duthinh, A. Pintar and E. Simiu 	<p>Organizer: Art Shultz</p> <p>Panelists: Finley Charney, Virginia Tech University Bill Coulbourne, Colbourne Consulting Larry Griffis, Walter P. Moore</p>
<p>Noon-1pm</p>	<p>Lunch</p>		

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1:00pm-2:30pm	<p align="center">Concurrent Sessions #2 Powell Lab Tour #2 (sign up required at registration)</p>	<p align="center">Concurrent Sessions #5 Powell Lab Tour #5 (sign up required at registration)</p>	<p align="center">Concurrent Sessions #8 Powell Lab Tour #8 (sign up required at registration)</p>
	<p align="center"><i>Bluff Body Aerodynamics II</i></p>	<p align="center"><i>Tornadoes II</i></p>	<p align="center"><i>Tornadoes V</i></p>
	<ul style="list-style-type: none"> • [7640] Spanwise Correlation of Vortex-induced Force on Rectangular 5:1 Cylinder: Y. Sun, X. Wang, H. Liao, M. Li • [7584] Numerical simulation of aeroelastic instability and behavior of a rectangular prism beyond critical: J. Wan, H. Liao, A. Kareem • [6465] Aerodynamic Pressures Measured at Multiple Taps on the Surfaces of a Square Cylinder in Smooth Flow with Various Angles of Attack: D. Yeo, M. Kovarek, I. Shinder, and E. Simiu • [7587] Dynamic Coupling Effects on Long-Span Bridges Under Concurrent Wind, Traffic and Earthquake: S Chen, Y.Zhou. 	<ul style="list-style-type: none"> • Effect of Topography on Tornado Flow Field: A. Razavi, P. Sarkar • Development of a wind engineering field laboratory to characterize transient winds: J. Nevill, F. Lombardo • Close to Ground Wind Field in a Vortex Chamber Using CFD: R. Selvam and D. Dominguez • Stochastic Simulation of Tornado Tracks for the Continental United States: F. Fan, W. Pang • Effect of a tornado in rural areas of Jiangsu province in China: W. Fang, D. Pan, J.P. Pinelli, J. Hou 	<ul style="list-style-type: none"> • An investigation of translation and static pressure effects on tornado-induced peak pressures on low-rise buildings using the DesignSafe cyberinfrastructure: F.L. Haan, Jr. and P.P. Sarkar • Tornado Rates in China and Post-Disaster Investigation of Tornado in China on June 23, 2016: R. Gao, Q. Yang, T. Li, Y. Tamura • Effects of Aspect Ratio on Tornado-Like Vortices Simulated in a Large-Scale Tornado Simulator: Z. Tang, L. Wu, C. Feng, D. Zuo and D. James • The Influence of Tangential to Translational Velocity Ratio on Tornado Force Coefficients on Building Using CFD: Majidi A. A. Yousef, R. Panneer, Selvam • Numerical Simulation of Tornado-like flow in a laboratory-scale Ward-type Simulator: F. Yuan, G. Yan, R. Honerkamp, K. Isaac
	<p align="center"><i>Meteorology II</i></p>	<p align="center"><i>Catastrophe Modeling II</i></p>	<p align="center"><i>Multi-Hazard Engineering</i></p>
	<ul style="list-style-type: none"> • [2626] Near surface longitudinal velocity positively skews with increasing aerodynamic roughness length: P.F. Cabán, F. Masters • [7692] Consistent analytical urban canopy layer velocity profile for dense building arrangement: A. Awol, G. Bitsuamlak, F. Tariku • [1313] Evolutionary Spectra-based Time-varying Coherence Function and Its Engineering Application: Y. Jiang, L. Peng, G. Huang, X. Chen • [9898] Developments in remote sensing of hurricane winds from air and space: M. Powell 	<ul style="list-style-type: none"> • Impact of the Latest Florida Building Code on the Statewide Hurricane Risk: B. Kordi, K. Ramanathan, T. Johnson, F. Moghim, S. Bobby • Assessing Climate Change Impact on U.S. Atlantic Hurricane Hazards - Sea Surface Temperature Uncertainties: T. Le, F. Liu, W. Pang • An application of cat modeling for hurricane risk mitigation using life cycle analysis: R. Li, K. Ramanathan, T. Reinhold, C. Kafali • Fragility analysis of steel roofing cladding: influence of wind loading correlation and wind directionality: X. Ji, G. Huang, X. Zhang, G. Kopp • Wind Damage Function and Exposure Database developed in the Framework of Hurricane Loss Prediction Model: J. H. Oh, P. Apirakvorapinit, M. Gadhiya, S. Daneshvaran, B. Pei 	<ul style="list-style-type: none"> • Field Reconnaissance Following the Passage of Hurricane Matthew over Haiti's Tiburon Peninsula: T. Kijewski-Correa, A. Kennedy, K. Perry, D. Prevatt, S. Schiff, A. Taflanidis • A Wireless Sensors Network System for Spatially Resolved Storm Surge Measurements: S. Chintalapati, C. Subramanian • A Multi-Hazard Tropical Cyclone Disaster Impact Scenario Model for Queensland: R. Krupar III and M. Mason • Structural behavior of aboveground storage tanks under joint surge, wave, and wind loads: C. Bernier; J. Padgett

Date	Monday, May 22, 2017	Tuesday, May 23, 2017	Wednesday, May 24, 2017
	<p style="text-align: center;"><i>Codes and Standards II</i></p> <ul style="list-style-type: none"> • [7662] Historical Development of Wind Speeds for Structural Design in the Commonwealth Caribbean 1952-2008: <i>T. Gibbs FREng</i> • [7715] Comparison of wind pressures in typical buildings computed according to current wind regulations of the Dominican Republic and ASCE 7: <i>N. Rojas-Mercedes, L. Aponte-Bermúdez, V. Escalante-Cervera, and D. Carvajal-Sánchez</i> • [7699] Development of New Wind Speed Maps for the ASCE 7-16 Standard: <i>M. Levitan, F. Lombardo, A. Pintar, P. Vickery, E.Simiu</i> • [6497] Geographic Based Parameters for Design Wind Speeds: <i>S. Schiff</i> • [7720] ASCE 7 Directionality Factor Revisited: <i>P. Vickery</i> 	<p style="text-align: center;"><i>Resilience</i></p> <ul style="list-style-type: none"> • Performance-Based Design for Better Resilience: <i>D. Agdas, M. Mason</i> • Quantifying Socio-Economic Impact of a Tornado by Evaluating Population Dislocation as a Resilience Metric at the Community Level: <i>H. Masoomi, J. van de Lindt, L. Peek, B. Ellingwood, H. Mahmoud, N. Wang, A. Cerato, and K. Simonen</i> • Infrastructure resilience for hurricane hazards: <i>S. Wang, J.L. Machado, X. He, E.J. Cha, D. Reed</i> • Date stamping strategy development for detecting collapse period in Hurricane Resiliency Index Time series: <i>C. Zhu, D. Liang, B. Ewing</i> • Community Resilience Study of Coastal Residential Buildings subject to Strong Winds: <i>J. Weston, F. Pan, W. Zhang</i> 	<p style="text-align: center;"><i>Panel Session on Development of the new ASCE Standard for Tornado Wind Speed Estimation</i></p> <p style="text-align: center;">Organizer: <i>Marc Levitan, NIST</i></p> <p style="text-align: center;">Panelists: <i>Frank Lombardo, University of Illinois at Urbana-Champaign</i> <i>Bill Coulbourne, Coulbourne Consulting</i> <i>J. Arn Womble, West Texas A&M</i> <i>Greg Kopp, Western University</i></p>
2:30pm-3pm	Networking Break		
3:00pm-4:30pm	Concurrent Sessions #3 Powell Lab Tour #3 (sign up required at registration)	Concurrent Sessions #6 Powell Lab Tour #6 (sign up required at registration)	Concurrent Sessions #9 Powell Lab Tour #9 (sign up required at registration)
	<i>Thunderstorms and Downbursts</i>	<i>Tornadoes III</i>	<i>Tornadoes VI</i>
	<ul style="list-style-type: none"> • [7719] Thunderstorm wind directionality: <i>D. Banks, D. Chen, A. Beyer-Lout</i> • [7659] A Simple Vortex Model of a Thunderstorm Downburst – a Parametric Study: <i>M. Jesson, M. Sterling</i> • [7620] A Preliminary Examination of Structural Fragility for a Cantilever Structure Subjected to Thunderstorm Downburst Loading: <i>V. Le, L. Caracoglia</i> • [6503] New Framework for Estimating Thunderstorm Design Speed: <i>H. Aboshosha</i> • [1112] Recent Observations of Structural Damage in Non-Synoptic Wind Events: <i>A. Jain</i> 	<ul style="list-style-type: none"> • Empirical Validation of Engineering-based Tornado Fragility Functions: <i>D. Roueche, D. Prevatt, F. Lombardo, F. Haan</i> • Development and Validation of a Tornado Damage Model: <i>P. Vickery, S. Banik, L. Twisdale Jr., and L. Phan</i> • Tornado Damage Modeling of Single Family Wood Frame House: <i>S. S. Banik, P. J. Vickery, and L. A. Twisdale</i> • Probabilistic Analysis of EF Scale Windspeeds for Tornado Hazard Analysis: <i>Twisdale, Banik, Vickery, Quayyum, Levitan, Phan</i> • A Methodology for Estimating Relative Safety of Tornado Refuge Areas: <i>Twisdale, Mudd, and Levitan</i> 	<ul style="list-style-type: none"> • Tornado Damage Preservation via 3D Reality Capture: <i>M. Mohammadi, R. Wood, J. Womble, D. Smith, E. Loudon</i> • A 3D Tornado Wind Field Model for Two-Cell Tornado Vortex: <i>J. Wang, W. Pang, S. Cao, F. Fan</i> • Dual-Doppler Radar, In Situ Anemometric and Ground Damage Observations of the 27 November 2014 Brisbane Supercell: <i>R. Krupar III, M. Mason, D. Smith, J. Soderholm, A. Protat, W. Gunter</i> • Tornado Hazard Mapping for Tornado-Resistant Design of Buildings and Infrastructure: <i>L. Phan, M. Levitan, L. Twisdale</i> • Non-Synoptic Wind-Induced Response of Long-Span Bridges: A Hybrid CFD-CSD-based Approach: <i>J. Hao, T. Wu</i>

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	<p data-bbox="233 102 768 151"><i>Computational Wind Engineering and Cyberphysical Modeling III</i></p> <ul data-bbox="212 207 800 651" style="list-style-type: none"> • Synthesized inflow turbulence generation methods for LES study of tall building aerodynamics: <i>A. Melaku, G. Bitsuamlak, A. Elshaer, H. Aboshosha</i> • Generating a turbulent inflow for LES of wind loading: <i>G. Lamberti, C. Gorle</i> • Application of LES simulation for building vulnerability: Relative variation of wind pressure in relation to square footage of low-rise buildings: <i>A. Dagneu; C. Kafali</i> • Large eddy simulation of flow field over urban-like roughness using SGS model based on turbulent structures: <i>A. Ono, P. Van Phuc</i> • Partial Atmospheric Boundary Layer Simulations Using Flow Databases Based on the Precursor Method: <i>L. Shi, D. Yeo</i> 	<p data-bbox="1016 110 1220 134"><i>Design Optimization</i></p> <ul data-bbox="827 196 1419 662" style="list-style-type: none"> • Tailoring of Long-span Bridge Decks to Improve their Aerodynamic Performance Using CFD Based Optimization Method: <i>Y. Fang, A. Kareem</i> • Influence controlled particle swarm for discrete optimization of wind sensitive steel frames: <i>P. Fernández Cabán, F. Masters</i> • Topology Optimization of Wind-Excited Uncertain Building Systems Subject to Performance Constraints: from Life Safety to Habitability: <i>A. Suksuwan; S. Spence</i> • 3D Performance-Based Topology Optimization of Uncertain Dynamic Tall Building Systems: <i>X. Luo, S. Spence; A. Kareem</i> • CFD-based Multi-objective Aerodynamic Shape Optimization of Twisted Tall Buildings: <i>F. Ding, A. Kareem, S. Spence</i> 	<p data-bbox="1465 110 2007 134"><i>Other Structures and Wind Engineering Applications II</i></p> <ul data-bbox="1444 334 2039 651" style="list-style-type: none"> • Structural failures due to strong winds in non-wind areas in Mexico: <i>Hernández-Barrios H. and H. Iván</i> • Wind hazard resilient construction mitigation decision-making using a multi-objective optimization algorithm: <i>F. Orooji, C. Friedland</i> • Evaluation on Uncertainty of Peak Wind Load Effect with Analytical Approaches: <i>G. Huang, X. Ji</i> • Structural Response of Transmission Line Conductors Under Thunderstorm Wind: <i>A. Elawady</i>
	<p data-bbox="380 716 621 740"><i>Codes and Standards III</i></p>	<p data-bbox="982 716 1251 740"><i>Wind Damage Assessment</i></p>	
	<ul data-bbox="201 792 800 1230" style="list-style-type: none"> • Toward a Codification of Thunderstorm/Downburst Winds through a Gust Front Factor: Model-based and Data-Driven Perspectives: <i>A. Kareem, D. Kwon</i> • Development of Design Wind Speeds for Global Locations – Analysis of Extreme Straight Winds with Surface Wind Speed Observations: <i>F. Liu and P. Vickery</i> • Preliminary Design Guidelines for Temporary Securement of Wind-Damaged Roof Assemblies: <i>T. Smith, AIA, RRC, F.SEI</i> • Comparison of IEC 61400-3 Recommendations for Extreme Load Conditions with Recently Observed Hurricane Models: <i>G. Amirinia, S. Jung</i> • A Comparison of AS/NZS1170.2 and CFD Predictions of Wind Flow Over Simple Hill Shapes: <i>R. Flay, A.A.S. Pirooz</i> 	<ul data-bbox="827 805 1419 1219" style="list-style-type: none"> • Natural Hazard and Damage Assessment of Building Infrastructures in a Coastal Community: <i>J. Zhu, D. Wu, J. Weston, W. Zhang</i> • Analysis of Damage Data from Recent Tropical Cyclones in Queensland: <i>D. Smith, D.Henderson, R. Krupar III, M.Mason</i> • Recent Advances in Remote-Sensing Assessments of Wind Damage: <i>J. A. Womble, V. Patriani-Cardoso</i> • Effects of Hurricane Matthew on a Florida residence roof: <i>H. Gurrum, C. Subramanian, J.P. Pinelli</i> • Hurricane Matthew Multi-Hazard Damage Survey: <i>F. Habte, N. Kishi, and M. Simon</i> 	<p data-bbox="1696 995 1759 1019">Break</p>
4:30pm	<p data-bbox="222 1284 789 1365">EXPLORE Gainesville (Harn Museum, Hippodrome, Downtown Restaurants and Entertainment)</p>	<p data-bbox="873 1312 1356 1336">Student Poster Session/Networking Reception</p>	<p data-bbox="1654 1325 1818 1349">Closing Session</p>
7:00pm		<p data-bbox="947 1385 1283 1409">ACWE Banquet Dinner at Hilton</p>	