

Truth in Testimony Disclosure Form

In accordance with Rule XI, clause 2(g)(5)*, of the *Rules of the House of Representatives*, witnesses are asked to disclose the following information. Please complete this form electronically by filling in the provided blanks.

Committee: Science, Space, and Technology

Subcommittee: Environment

Hearing Date: December 4, 2019

Hearing Title :

Calm before the Storm: Reauthorizing the National Windstorm Impact Reduction Program

Witness Name: Delong Zuo

Position/Title: Associate Professor

Witness Type: Governmental Non-governmental

Are you representing yourself or an organization? Self Organization

If you are representing an organization, please list what entity or entities you are representing:

Texas Tech University

If you are a non-governmental witness, please list any federal grants, cooperative agreements, or contracts (including subgrants or subcontracts) related to the hearing's subject matter that you or the organization(s) you represent at this hearing received in the current calendar year and previous two calendar years. Include the source and amount of each grant, cooperative agreement, or contract. *If necessary, attach additional sheet(s) to provide more information.*

(1) National Science Foundation: "Phase I of IUCRC at TTU: Center for Wind Hazard and Infrastructure Performance (WHIP)." 03/2019 - 02/2024; Principle Investigator: Delong Zuo; Award Amount: \$750,000
(2) National Science Foundation: "Collaborative Research: Assessment of Tornado Loading on Low-Rise Buildings Using Computational Modeling and Tornado Simulator Testing." 05/2018 - 04/20121; Principle Investigator: Delong Zuo; Award Amount: \$243,255

If you are a non-governmental witness, please list any contracts or payments originating with a foreign government and related to the hearing's subject matter that you or the organization(s) you represent at this hearing received in the current year and previous two calendar years. Include the amount and country of origin of each contract or payment. *If necessary, attach additional sheet(s) to provide more information.*

Additional Federal Grants, Corporative Agreements, or Contracts

- (3) National Science Foundation: "Benchmark Study of Tornado Wind Loading on Low-Rise Buildings with Consideration of Internal Pressure." 05/2017 – 04/2020; Principle Investigator: Delong Zuo; Award Amount: \$350,001
- (4) National Institute of Standards and Technology: "To develop innovative methods for measuring and modeling short-term and long-term social and health effects of windstorms and their impact on the built environment." 09/2019 – 08/2022; Principle Investigator: Daan Liang; Award Amount: 667,000
- (5) National Institute of Standards and Technology: "To deploy new 4D measurement and modeling techniques to advance understanding of windstorm characteristics and provide input and validation of numerical, experimental and empirical modeling efforts." 09/2019 – 08/2022; Principle Investigator: John Schroeder; Award Amount: 582,000
- (6) Department of Commerce: "Innovative Financing Strategies for Small Businesses in Hurricane Prone Regions." 03/2019 - 03/2022; Principle Investigator: Bradley Ewing; Award Amount: 750,000
- (7) National Oceanic and Atmospheric Administration: "VORTEX-SE: Establishing the Interdependence of Thermodynamic State, Lightning, and Low-Level Vorticity as a Foundation for Improved Forecaster Awareness of Southeast U.S. Storms." 09/2018 – 08/2020; Principle Investigator: Christopher Weiss; Award Amount: \$299,039
- (8) National Science Foundation: "Collaborative Research: Targeted Observation by Radars and UAS of Supercells (TORUS)." 09/2018 – 08/2021; Principle Investigator: Christopher Weiss; Award Amount: \$603,862
- (9) National Oceanic and Atmospheric Administration: "National Severe Storms Laboratory NRMAG000-18-01297." 09/2018 – 05/2019; Principle Investigator: Christopher Weiss; Award Amount: \$101,383
- (10) National Oceanic and Atmospheric Administration: "National Severe Storms Laboratory/NRMAG000-19-00105." 02/2019 – 02/2020; Principle Investigator: Christopher Weiss; Award Amount: \$139,395
- (11) National Oceanic and Atmospheric Administration: "VORTEX-SE: Characterization of microphysical processes in potentially tornadic Southeast U.S. storms via polarimetric radar - disdrometer - lightning synthesis." 09/2019 – 08/2021; Principle Investigator: Christopher Weiss; Award Amount: \$147,273
- (12) National Oceanic and Atmospheric Administration: "Potential Sites for StickNet Surface Observation in Southeast Subregions of US." 09/2019 – 12/2019; Principle Investigator: Christopher Weiss; Award Amount: \$23,298