

# A NONSTRUCTURAL APPROACH— LIVING WITH FLOODS

Lea Adams, PE, D.WRE

Chair, National Nonstructural Committee

US Army Corps of Engineers

26 February 2020



US Army Corps  
of Engineers®

*Risk = Probability x Consequences*



US Army Corps  
of Engineers.



# WET FLOOD PROOFING



US Army Corps  
of Engineers.



# DRY FLOOD PROOFING



US Army Corps  
of Engineers.





# ELEVATION



US Army Corps  
of Engineers.



# RELOCATION/ACQUISITION



US Army Corps  
of Engineers.



# NONSTRUCTURAL CHALLENGES

- Lack of knowledge
- Small scale implementation to date
- Eminent domain requirements
- Local ordinances
- Planning ahead for implementation



US Army Corps  
of Engineers.





# PROJECT EXAMPLES

## GI Studies



## Community Assessments



US Army Corps  
of Engineers.

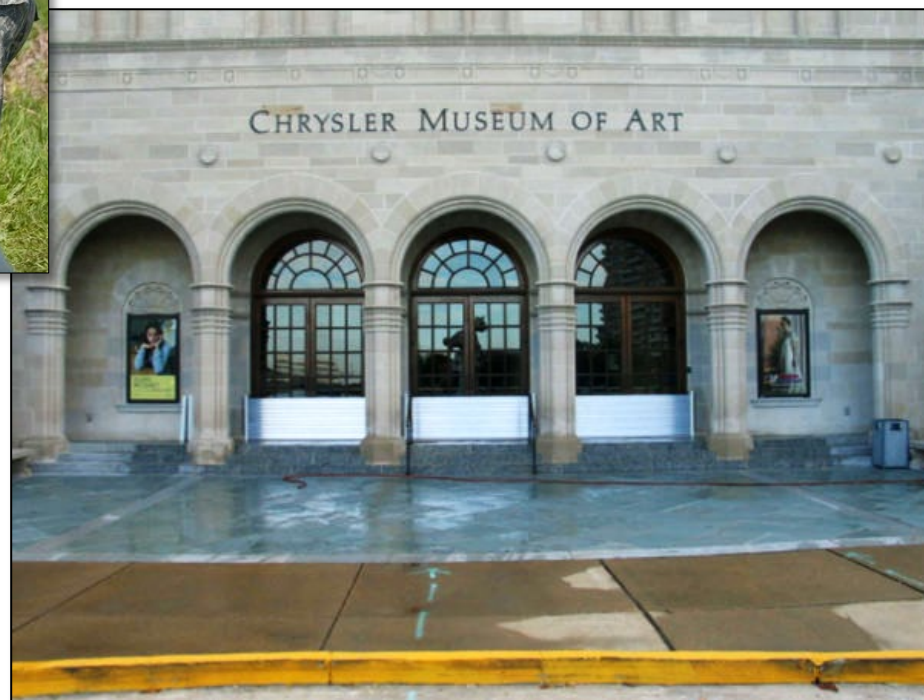




# NATIONAL FLOOD BARRIER TESTING AND CERTIFICATION PROGRAM



<https://nationalfloodbarrier.org/>



# NONSTRUCTURAL IN ACTION



Photos courtesy of SmartVent



US Army Corps  
of Engineers.



# NATIONAL NONSTRUCTURAL COMMITTEE

**Lea G. Adams, PE, D.WRE**

*Committee Chair*

Chief, Water Resource Systems Division, Hydrologic Engineering Center

**Danielle M. Tommaso, CFM**

*Executive Secretary*

Planner, New York District

**Jodie R. Foster, PhD**

Planner, Fort Worth District

**Andrew (Andy) D. MacInnes**

Water Resources Certified Planner, RTS, New Orleans District

**Brian T. Maestri**

Economist, RTS, New Orleans District

**Christina (Chris) A. Rasmussen, CFM**

Hydraulic Engineer, New York District

<https://www.usace.army.mil/Missions/Civil-Works/Project-Planning/nnc/>



US Army Corps  
of Engineers.

