

**Florida Floodplain Managers Association**  
**2019 Annual Conferences**  
**Abstracts**

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**Title:** Flood Related Building Performance Observations - Lessons Learned from 2017 & 2018 Hurricanes

**Length:** 45 minutes

**Subject:** Regulatory Building

**Target Audience:** Floodplain administrators, building officials, planners, design professionals

**Presenter Name:** Manuel Perotin, PE, CFM  
Senior Project Manager  
CDM Smith

**Biography:** Manny Perotin is a Senior Project Manager with CDM Smith. He has more than 15 years of experience in risk and vulnerability assessments, hazard mitigation, benefit-cost analysis, floodplain management, disaster recovery, and project management. He has worked on dozens of natural disasters as a FEMA Technical Assistance Contractor focusing on improving building performance related to mitigating flood risk. He is member of the ASCE 24 Flood Resistant Design and Construction committee and Co-Chair of the ASFPM Nonstructural Flood Proofing Committee.

**Co-Presenter:** None

**Biography:**

**Abstract:** In response to a natural disaster caused by an event such as a flood or hurricane, the Federal Emergency Management Agency (FEMA) may deploy a Mitigation Assessment Team (MAT). Following Hurricane Irma in 2017 and Michael in 2018, FEMA sent MATs to Florida. These teams are formed by and operate under the direction of the Risk Management Directorate's Building Science Branch at FEMA Headquarters. The MAT conducts field assessments and technical evaluations of the performance of buildings subjected to forces produced by the event. The primary purpose of the MAT's technical assessments is to identify design practices, construction methods and building materials that failed under the forces generated by the event and those that successfully resisted such forces. The performance of previous mitigation activities is particularly of interest. One of the major objectives of the MATs is to provide recommendations for updating codes and standards to reduce future damage from natural disasters and improve resilience. The presentation will include case studies of visited locations and key lessons learned and recommendations as well as updated guidance related to flood resistant design and construction (including lessons learned from Harvey) – focus areas include performance of dry floodproofing measures, foundation performance, freeboard case study, and floodplain management best practices.