

2018
**DISASTER
ASSISTANCE**
YEAR END REPORT



AIA

About this report....

This report provides a snapshot of the efforts of the AIA Disaster Assistance program nationwide in 2018, as told by the Disaster Assistance Committee, State Disaster Coordinators, AIA staff, and members.

We are humbled and inspired by the contributions our profession is making through education and training, policy and advocacy, and engagement in your communities pre and post disaster. Curious to learn more about something mentioned? See something we missed? Or goofed on? Email us at resilience@aia.org for more information or to provide corrections and additions.

We look forward to a disaster-free 2019, however since that reality is unlikely be sure to check out the brand new [Resilience and Adaptation education series](#) on AIAU and build your resilience muscles as a new years resolution. Complete all 9 courses and receive your certificate!

Be safe, be prepared and design with resilience in mind.

--AIA Resilience Team,
Lindsay Brugger, AIA and Rachel Minnery, FAIA

The AIA National Disaster Assistance Committee:

Established in 2006, members with disaster assistance experience **provide leadership and guidance** to members and AIA chapters on disaster preparedness and response. In addition, the Disaster Assistance Committee **shares research and recommendations** to mitigate building damage and recover more safely and quickly from disasters. The committee **equips members and components with the tools and resources they need to create their own local disaster assistance programs** by promoting Good Samaritan laws and other liability protection, Memorandums of Understanding with municipal governments and other collaborators in the building industry, building safety assessment training, and establishing volunteer networks.

1. Provide expert guidance and inform public and member awareness efforts related to emergency preparedness, hazard mitigation, disaster response and recovery
2. Respond to component and member questions regarding disaster assistance and hazard mitigation best practices
3. May provide AIA's Safety Assessment Program trainings
4. Support State Disaster Assistance Coordinators pre and post-disaster.
5. Build coordinator network and institutional disaster assistance knowledge

The 2018 AIA National Disaster Assistance Committee:

Rose Grant, AIA, Chair – Illinois

J. Scott Eddy, AIA, Vice Chair – Mississippi

John Blumthal, FAIA – Oregon

Ava Christie, AIA – Kansas

Emily Zimmer, AIA – New York

Dean Vlahos, FAIA – California

Shawn Gillen, AIA – Texas

Aaron Bowman, AIA – South Carolina

Kathleen Gordon, Assoc. AIA CACE rep –
Louisiana

AIA National staff --

Rachel Minnery, FAIA

Lindsay Brugger, AIA



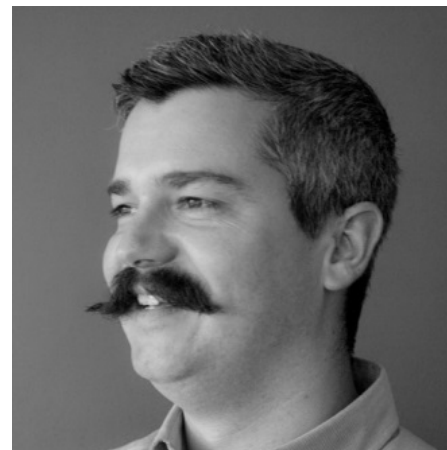
Chair:
Rose Grant, AIA



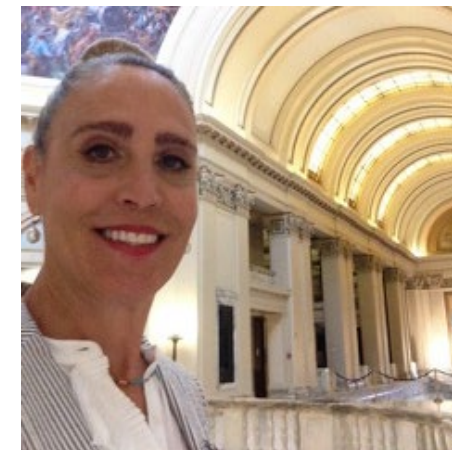
Vice Chair:
Scott Eddy, AIA



John Blumthal,
FAIA



Aaron Bowman,
AIA



Ava Moore
Christie, AIA



Shawn Gillen, AIA



Kathleen Gordon,
Assoc. AIA



Dean Vlahos, FAIA



Emily Zimmer, AIA

Member & component support

AIA National Disaster Assistance Committee Members and Staff support the work of state and local disaster assistance programs.

Have a question? Need a resource? Want to be connected to your regional representative to the AIA National Disaster Assistance committee?

Email resilience@aia.org

State and Local Disaster Assistance Accomplishments*



AIA

*as reported by the Disaster Coordinator and/or Component Staff POC

State by State Accomplishments

AIA California Council

- AIACA established ArchitectsHelp.org and raised over \$15K for disaster recovery for 2017 and 2018 wildfires
- Convened a committee of the local components in the affected areas to share information, resources and ideas; Consequently, several local components created their own disaster assistance programs
- Created an AIA California component *Disaster Assistance Toolkit* with step by step instructions for outreach
- 100 new CAL OES SAP trained members including the whole AIACA board of directors. Over 460 architects are certified in California.
- Deployed 30 volunteers for the disasters for a duration of 3 days to 2-weeks

AIA Orange County, CA

- Two members certified to be State of California SAP trainers.
- Held a CAL-OES SAP training seminar for architects.
- Included a resiliency track in our annual symposium on the Future Sustainability of Orange County
- Included resiliency programs for members as CES courses.

State by State Accomplishments

AIA Colorado

- Two members completed SAP training offered through the Colorado NCSEA chapter.
- Attended local post-disaster housing seminar
- Made connections with city and county employees across the Denver metro area who are looking at further developing their local disaster response efforts.

State by State Accomplishments

AIA Miami, FL

- Met with the director of the Miami-Dade County Office of Emergency Management to discuss opportunities for a more robust involvement of architects in disaster relief activities.
- Participated and presented at the Miami-Dade County Whole Community Engagement Quarterly Meeting
- Provided the Caribbean Alliance for Sustainable Tourism (CAST) and the Caribbean Tourism Organization (CTO) a roster of codes and publications in support to their rebuilding resilient efforts for coastal developments throughout the region.

AIA Georgia

- Held AIA SAP training including 104 professionals: Architects 44; Engineers 25; and Building Officials 35.
- Currently reviewing the Good Samaritan State Statute
- Reached out to Georgia Emergency Management Agency (GEMA) to discuss a MOU

State by State Accomplishments

AIA Iowa

- Reorganized administrative duties to accommodate 50% State funding cut to the dept. of public safety. AIA Iowa has taken over nearly all program duties.
- Planned SAP training for Spring 2019.

AIA Kansas

- Spring and Fall SAP Training sessions were provided. Training was provided as part of the program for the Society of American Military Engineers (SAME) annual conference held in Kansas City, Missouri.
- The MOU authorizing AIA Kansas disaster assistance to the Kansas Division of Emergency Management (KDEM) for 2 more years was signed. The AIA Kansas committee known as the Kansas Assessment Team (KAT) has worked in collaboration with the KDEM since the late 1990s.

State by State Accomplishments

AIA Kentucky

- Appointed Craig Chamberlain, AIA as the State Disaster Coordinator and connected him/AIA Kentucky staff on Basecamp.
- Shared Institute outreach/assistance opportunities with our membership via newsletters and social media when applicable.
- Scheduled a local Safety Assessment Training program to occur in Lexington in January 2019.

AIA Maryland

- Held two SAP trainings, totaling 58 newly SAP-trained professionals.
- Worked closely with the Maryland Emergency Management Agency (MEMA) to develop a statewide MOU.
- Attended and presented an overview of AIAMD DAP to a meeting of MEMA Quarterly Emergency Managers Meeting.

State by State Accomplishments

AIA New York State

- Held four SAP/CEDAR training sessions throughout the state training over 120 design professionals, architects and engineers.
- Continued work with the Department of State on CEDAR activation, the state's unique building assessment program.
- Formed a Puerto Rico recovery task force that meets monthly and has conducted one day-long workshop and partnerships in Puerto Rico leveraging the ex-pat community in New York City to support recovery.
- Advising FEMA region 2 on resources to share with Puerto Rico recovery.
- Partnered with the New York State Energy Research and Development Authority and University at Buffalo to support a two day conference *Adapting Buildings to Climate Change*.

AIA New York, NY

- Created two events on how to fund resilient projects titled *Funding the Future* in partnership with the National Parks Conservation Association. Workshops were scenario driven, training design professionals to find ways to fund resilient projects large and small through many unknown resources and strategies. City and state officials joined the training with architects and engineers to streamline processes.
- Conducted a workshop with the New York City Housing Authority on the *Next Generation of Public Housing* focusing on strategies for existing buildings in flood zones. The results will inform future NYC policy.

State by State Accomplishments

AIA South Carolina

- Held three SAP Training Workshops throughout the state for architects, engineers and building officials
- Created a 2-year strategic plan for the AIASC Resilience Committee
- Organized second **Resilience: By Design** conference focused on resilience across South Carolina
- AIASC members were deployed by the SC State Guard to perform building safety evaluations after Hurricanes Florence and Michael

State by State Accomplishments

AIA Virginia

- Reinvigorated an existing MOU with the Commonwealth's Department of Emergency Management (VDEM) and developed a meaningful relationship with its key leadership
- Held two SAP trainings thus providing the Commonwealth with 70 more trained architects, structural engineers, and building officials as resources
- Voted to have a Disaster Assistance Committee as a Standing Committee in our bylaws which includes a position from VDEM

AIA Wisconsin

- Deployed 20 volunteers for five days in three communities in response to the floods in Dane County.
- Volunteers worked a total of 333 hours and evaluated 547 properties.
- AIA WI volunteer time and efforts helped Dane County secure FEMA funding and grants to provide relief to affected citizens.

2018 National **Disaster Assistance Program** Accomplishments



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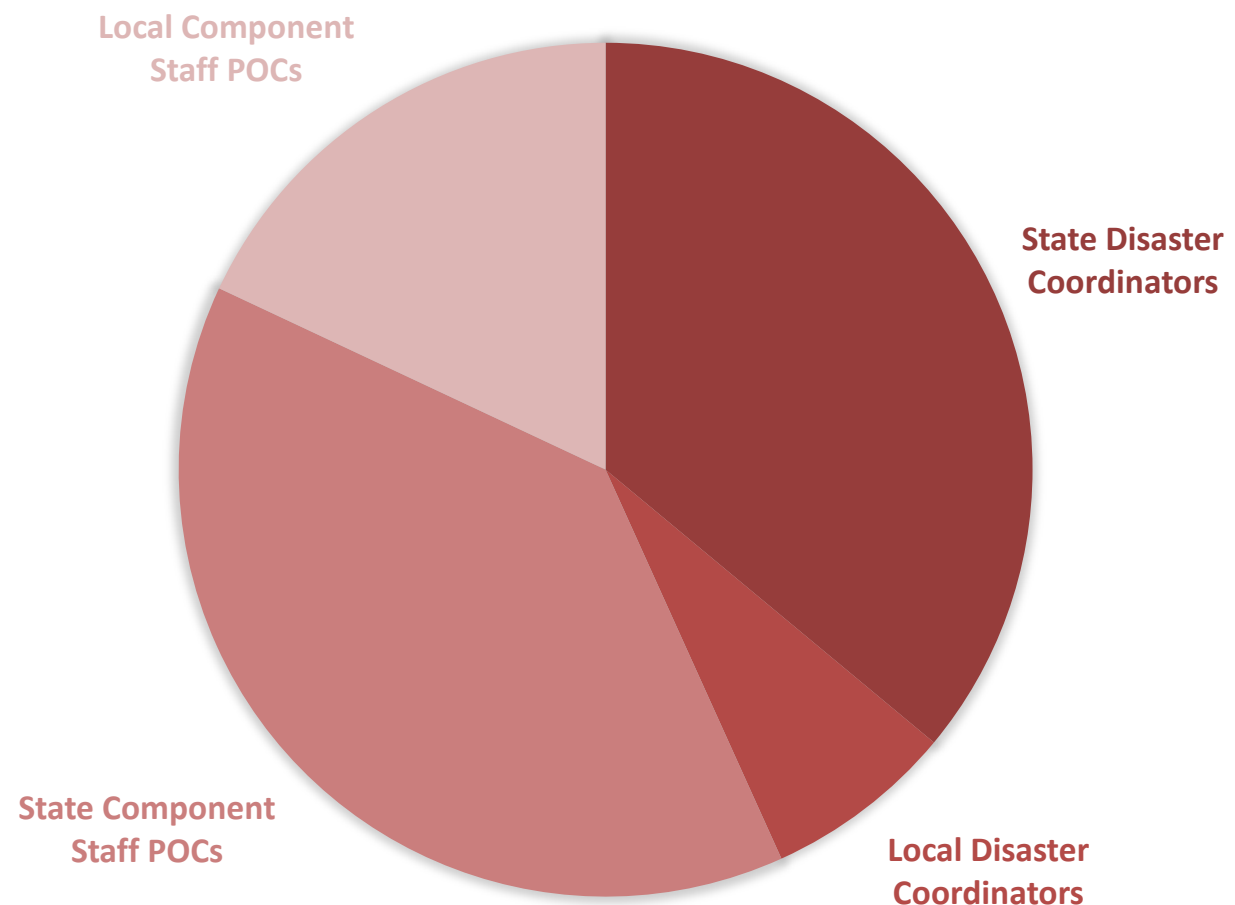
AIA State Disaster Coordinator Network

State Disaster Coordinator virtual network established on basecamp*

To support the disaster assistance work of members and component leaders, AIA maintains the AIA State Disaster Coordinator Network to empower AIA staff and members in all states to prepare for, respond to and recover from disasters. The State Disaster Coordinator Network [Basecamp](#) site currently includes:

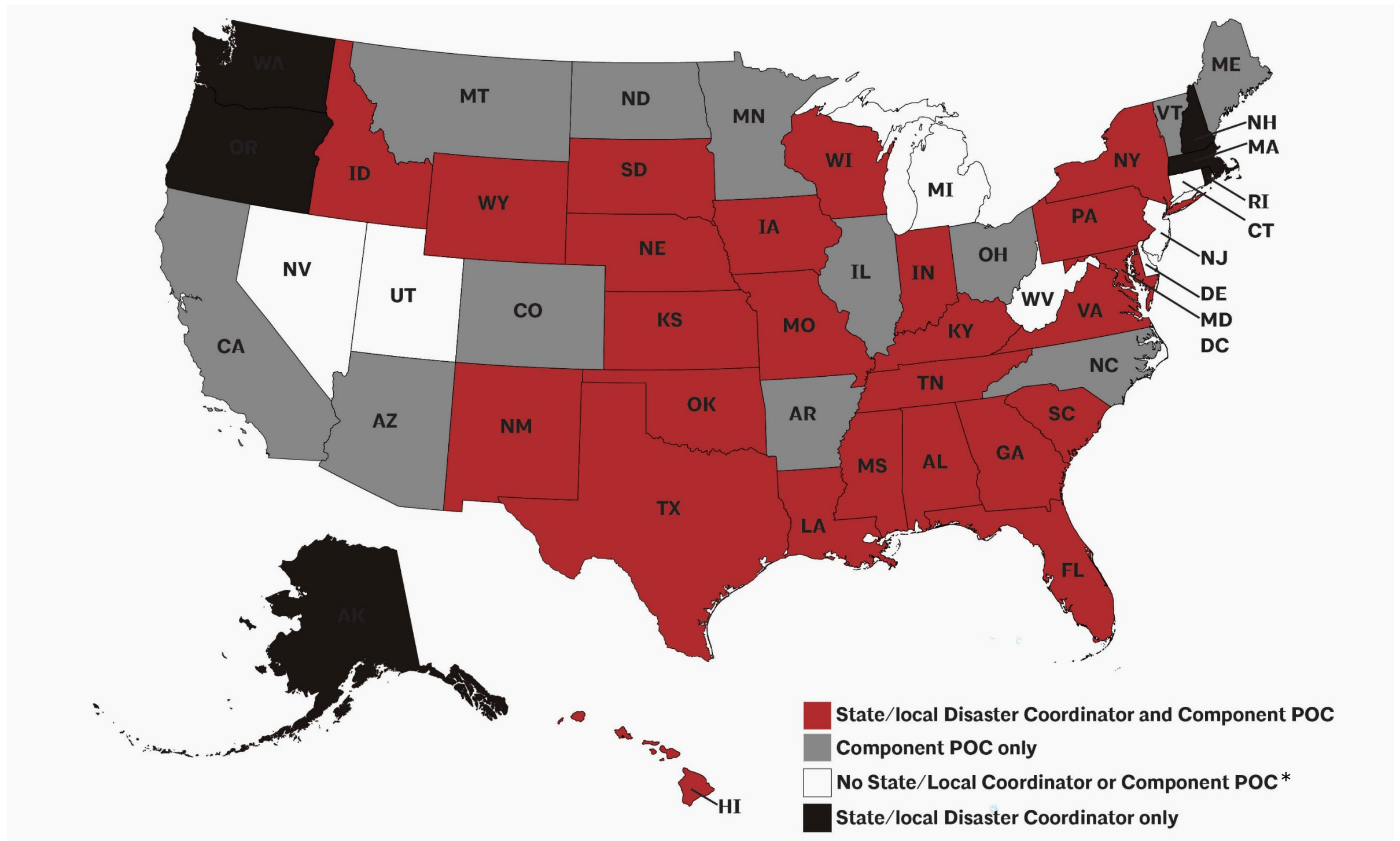
AIA STATE DISASTER COORDINATOR NETWORK

40 state coordinators
8 local coordinators
43 state component staff
20 local component staff



*State/local Disaster Coordinators and staff may request access to the Basecamp network by emailing resilience@aia.org 16

AIA State Disaster Coordinator Network



*Did we miss you? State/local Disaster Coordinators and staff may request access to the Basecamp network by emailing resilience@aia.org

AIA State Disaster Coordinator Network

The State Disaster Coordinator Network Basecamp site includes [a library of new and improved resources](#) designed to help Coordinators and Component Staff establish, maintain, and grow their state or local disaster assistance program.

Newest tools and resources:

(Find these and more on the Basecamp Network)

- [New SAP advocacy video](#) to help Coordinators and Component staff tell the story of how the post-disaster building safety assessments architects perform help communities
- SAP instructional video to enhance AIA SAP trainings and affiliated [trailer to inspire SAP training sign-ups](#). Big thanks to the many involved in responding to Hurricane Harvey and creating these new multimedia resources, including J. Scott Eddy, AIA, Shawn Gillen, AIA, Debbie Montez, Nicole Joslin, AIA, Connie Rivera, AIA, AIA Corpus Christi, AIA Houston, and the Texas Society of Architects!
- [Connecting architects to the emergency management networks across America](#). Kudos to Ava Christie, AIA for leading this endeavor!



New SAP Advocacy Video

AIA Education

- Launched [Resilience & Adaptation Online Education Series](#) including hazard mitigation-focused courses that complement disaster assistance efforts:
 - Hazards, Vulnerability, and Risk in the Built Environment
 - Codes and Rating Systems for Resilience
 - Conducting Vulnerability Assessments
 - New Construction: Hazard Mitigation Strategies
 - Existing Buildings: Hazard Mitigation Retrofits
 - Professional Risk and the Business Case for Resilience
- Held 14+ AIA SAP Trainings nationwide, resulting in 317+ newly trained volunteers
- Grew the pool of AIA SAP instructors to 14
- Expanded technical guidance on AIA's [Hazard Mitigation Design Resources](#), [Climate Change Adaptation Design Resources](#), and [Community Resilience Design Resources](#) web pages to promote a disaster resilient built environment



AIA Policy & Advocacy

Research and Education

- Participated in FEMA Harvey & Irma [Mitigation Assessment Team \(MAT\) Reports](#)
- Informed FEMA Florence MAT research areas to include nonstructural components and livability
- Participated in development of FEMA Building Science Concept Courses on flood and high wind hazards.
- Participated in the development of the [Alliance for National and Community Resilience's](#) Buildings Benchmark

- Sponsored the National Institute of Building Sciences [Mitigation Saves Interim Report](#) that details the cost/benefits of hazard mitigation






National Benefit-Cost Ratio Per Peril <small>*BCR numbers in this study have been rounded</small>		Federally Funded	Beyond Code Requirements
Overall Hazard Benefit-Cost Ratio		6:1	4:1
 Riverine Flood		7:1	5:1
 Hurricane Surge		Too few grants	7:1
 Wind		5:1	5:1
 Earthquake		3:1	4:1
 Wildland-Urban Interface Fire		3:1	4:1

Table 1: Benefit-Cost Ratio by Hazard and Mitigation Measure from the NIBS Mitigation Saves Interim Report

AIA Policy & Advocacy

Legislation and Federal Activities

- As a member of the [BuildStrong](#) Coalition, informed and advocated for the Disaster Recovery Reform Act (DRRA)
- AIA authored and proposed DRRA language, which was included in the final bill and accomplished the following:
 - Legally recognizes in federal law architects' vital role in performing building safety assessments post disaster
 - Mandates FEMA to work with AIA and engineering associations to author a guidance document for building safety assessment teams
 - Ensure guidance focuses on analyzing livability as well as the structural integrity of a building
- Held Building Safety Month panel & reception to promote architects as vital partners in creating hazard mitigation and disaster recovery policies
- As a member of the National Incident Management System working group to define national standards for *Structure Condition Evaluator* and *Building Safety Assessment Team*

AIA Policy & Advocacy

Public Comments:

- Submitted public comment regarding the [FEMA Planning considerations: Evacuation and Shelter in Place](#) recommending the document include lessons learned from experience with shelter-in-place operations
- Submitted public comment regarding the [NIMS Building Safety Assessment Team resource typing definition](#), emphasizing that building safety is not strictly about structural integrity and recommending a NIMS Typing Position be established for “architect” as well as inclusion of “licensed architect” as a Building Assessment Team resource type. Note: this public comment, led to AIA’s inclusion in the NIMS Working Group and was reflected in the proposed DRRRA language. Collectively, these efforts will provide architects the opportunity to inform national Building Safety Assessment protocol, to be fully developed in 2019.

AIA Policy & Advocacy

Building Codes & Standards

- The Disaster Assistance Committee participated on the AIA Blue Ribbon Panel to advance the strategic role of codes in addressing climate change, resilience and sustainability
- The Disaster Assistance Committee proposed a code change concept to encourage post-disaster building safety assessments by reference in the I-Codes. NOTE: this concept was not pursued by AIA as a code change proposal: *Following a disaster declaration or as requested by local office of emergency management, the code official is authorized to suspend or revoke a certificate of occupancy for damaged structures until such time as the structure has been evaluated. A revoked or suspended Certificate of Occupancy shall be reissued by the Authority Having Jurisdiction (AHJ) when the damaged structure has been inspected and found to no longer be in violation of any ordinance or regulation or any of the provisions of this code.*

AIA Communications

Presentations and Webinars

- Hosted [Component leader](#) and [State Disaster Coordinator](#) webinars to engage and empower state and local disaster assistance programs
- Presented at Grassroots Leadership Conference to help local leaders advance their disaster assistance programs

Articles by the Committee

- [*How building science and research can help avert disaster*](#)
- [*What wind and water can do to a building*](#)

What wind and water can do to a building

By Shawn Gillen, AIA, in collaboration with Rose Grant, AIA, August 23, 2018



A TWO-STORY CONDOMINIUM COLLAPSED IN HIGH WINDS WHEN STORM SURGE UNDERMINED ITS FOUNDATIONS.

High wind and water disasters have major implications for design. A Texas architect reflects on his experience responding to Hurricane Harvey, the damage he saw

AIA Communications

2018 AIA Conference on Architecture (A'18):

- The Disaster Assistance Committee hosted an AIA SAP Training including a special “lessons learned from recent disasters” module
- The Disaster Assistance Committee participated in the All Member Reception to introduce AIA’s [Disaster Assistance Program](#) to members and facilitate broader engagement
- The Disaster Assistance Committee held a SAP promo session on the Expo floor to make conference attendees aware of the SAP training program

Social Media*:

- Join us each September for a National Preparedness Month tweet-a-day to communicate hazard mitigation and disaster preparedness tips
- AIA Hosted a Building Safety Month Twitter Chat to promote the value of high performing buildings

More good work to come in 2019!

Things to look forward to (and engage in!) include:

- Disaster Assistance “Bootcamp” for coordinators and staff
- Business Continuity for architects
- Call for submissions for The Disaster Assistance Handbook 4th Ed.

....all thanks to your suggestions. Thank you for your incredible work in 2018 and cheers to an even more prepared and disaster resilient 2019! See you on Basecamp!



AIA

*email us at resilience@aia.org with your interest and ideas.

In remembrance: Michael Lingerfelt, FAIA

1956–2018

Michael devoted his life to bringing smiles to those that visited his theme park designs, assisting those that have been struck by disaster, and empowering his fellow architects to do the same. Michael responded to numerous major disasters, including Hurricane Katrina and the 2011 Tuscaloosa Tornados, among others. He trained over 1,800 architects, engineers, and building officials to provide building safety assessments post-disaster, including most recently in Texas, Florida, and Puerto Rico after Hurricane's Harvey, Irma, and Maria.

A valuable member and Chair of AIA's Disaster Assistance Committee, during Michael's tenure the committee launched the AIA Safety Assessment Program, the AIA State Disaster Coordinator Network, the AIA/AFH Disaster Response Plan Grant, and the AIA Designing Recovery Competition. He generously shared his knowledge and expertise, contributing to the 2012 and 2017 editions of the Disaster Assistance Handbook. He believed in the power of architects to not only help communities recover from disaster, but that architects could help prevent such damage; selflessly committing himself to the advocacy of strong building codes and disaster-resilient policies.

An instant friend and source of encouragement, Michael brought incredible joy and laughter to everyone he encountered. His eyes always brightened when discussing the family he loved so much and his smile couldn't be contained when sharing his latest challenge coin encounter. He was a beacon in an often-dark world and will be profoundly missed.

Michael was always so proud to work alongside you to advance the disaster assistance and resilience principles he cared so deeply about. Thank you for all that you do and continue to do.