

## ASCE COMMITTEE ON CRITICAL INFRASTRUCTURE (CCI)

The Committee on Critical Infrastructure shall develop and implement activities related to the resilience and risk reduction of critical infrastructure.

### CCI VISION

ASCE is a recognized leader in incorporating resilience into all-hazard preparedness (planning, design, procurement, construction, operations and maintenance), mitigation, response, and recovery of critical infrastructure.

### CCI MISSION

CCI provides insight and guidance to ASCE on its internal and external activities related to critical infrastructure resilience. CCI identifies, influences, and facilitates ASCE's role in critical infrastructure activities.

### WORKING DEFINITIONS

CCI has developed working definitions\* related to critical infrastructure as follows:

- **Critical infrastructure** includes systems, facilities, and assets so vital that their destruction or incapacitation would have a debilitating impact on national security, the economy or public health, safety, and welfare. Critical infrastructure may cross political boundaries and may be built (such as structural, energy, water, transportation, and communication systems), natural (such as surface or ground water resources), or virtual (such as cyber, electronic data, and information systems).
- **All-hazards** include events and conditions such as infrastructure deterioration, natural disasters, accidents, and malevolent acts that have the potential to cause injury, illness, death, damage or disruption of services.
- **Multihazards** denote the relevant environmental or manmade conditions that are used for engineering analysis and design. A sound multihazard approach to engineering practice will provide infrastructure resilience to all-hazards risks.
- **Resilience** refers to the capability to mitigate against significant all-hazards risks and incidents and to expeditiously recover and reconstitute critical services with minimum damage to public safety and health, the economy, and national security.

\*See ASCE Policy Statement 518, Unified Definitions for Critical Infrastructure and Sensible Security

## GOALS AND ACTIVITIES

1. Promote awareness in ASCE and the general public regarding sensible security and critical infrastructure resilience via planning; design; preparedness; procurement; construction; operation and maintenance; and response, mitigation, and recovery from multihazard conditions
  - Develop ASCE training and outreach tools promoting critical infrastructure maintenance, public awareness, and mitigation and response planning resources
  - Implement sensible security and resilience concepts into the ASCE Code of Ethics
  - Maintain vibrant critical infrastructure section of the ASCE website with regularly updated content
  - Host a WebBlog to share and archive information and opinions related to critical infrastructure
  - Publish monthly electronic publication, The CRIB Sheet, featuring updates on critical infrastructure news and related resources
  - Promote and energize ASCE Infrastructure Champions to facilitate communication between ASCE National and local geographic units on critical infrastructure related issues
  - Evaluate civil engineering curricula and make recommendations to better prepare future civil engineers
2. Provide structure, policies, and procedures for ASCE responses to events of national and/or international significance
  - Serve in an advisory role to the ASCE Board to determine appropriate response to significant events
  - Develop strategy to address liability and legal issues and operational context issues regarding participation in disaster response and recovery operations
  - Develop and promote mechanisms and training programs for ASCE members to participate in disaster response, recovery, and mitigation efforts
  - Develop a directory of ASCE members, with expressed interest and availability to assist in disaster response and recovery initiatives
3. Ensure that ASCE maintains its proactive leadership role in key national critical infrastructure issues, via internal and external coalitions, as appropriate
  - Advocate ASCE support of The Infrastructure Security Partnership (TISP)
  - Provide annual report to the Board of Direction on the efficacy of ASCE-wide critical infrastructure activities with specific recommendations for action
4. Facilitate the development of standards, guidelines, and standards of practice to develop critical infrastructure resiliency to multihazard conditions
  - Identify and document current and planned activities in critical infrastructure within ASCE
5. Evaluate the need for specialty certification for engineers involved with disaster management
  - Establish Disaster Response and Recovery Advisory Committee (DRRAC)

## ROSTER

| Name                              | Employer                    | Sector                                    |
|-----------------------------------|-----------------------------|---|
| Marsha Bomar-Anderson             | Stantec                     | Transportation                            |
| Mathew Francis, P.E., Chair       | URS Corporation             | Geotechnical                              |
| Charles Hookham, P.E.             | HDR Cummins & Barnard, Inc. | Energy                                    |
| Nathan Kathir, Ph.D., P.E.        | USACE                       | Public Works / Federal Government         |
| Sandra Knight, P.E.               | Bradley County              | Construction / Local Government           |
| Ziad Mazboudi, P.E.               | City of San Juan Capistrano | Environmental / Water                     |
| David Swanson, P.E.               | Reid Middletown             | Structures . Disaster Response            |
| Dennis Schrader, P.E., Vice-Chair | DRS International, LLC      | Industrial / Architect / State Government |
| Scott Tezak, P.E., BSCP           | TRC Solutions               | Structures / Risk / Disaster Response     |
| Catherine Tehan                   | ASCE                        | CCI Staff                                 |