







Topics and Subtopics

Riact & Im	pact Loading	Z. Roc	nonse of	Structures
DIASE & IIII	pact Loaums	z a nes	ponse or	Structures

Blast and Impact Load Characterization

Computational Methods

Non-structural components

Post blast issues

Progressive Collapse

Risk Assessment

Robustness/Resilience/Redundancy of Structures

Special Structures

Structural Engineer as Innovator in Terrorism Protection

Bridges and Transportation Structures

Analysis and Material Issues

Bridge Design Practice, Code & Standards

Bridges as Solutions to Societies Transportation Issues

Construction & Rehabilitation

Design & Extreme Loads

Foundations and Substructures

Inspection, Assessment, and Evaluation

Monitoring, Serviceability and Smart Bridges

Resilience and Sustainability

Buildings

Codes and Standards -Buildings

Connection Detailing and Design

Constructability/Erection/Fabrication Issues and

Techniques

Construction & Varied Building Types

Damping, Isolation and Smart Structures

Extreme Load Issues (fire, seismic, flood)

Disproportionate Collapse

Foundations and Substructures

How Buildings & Codes can Address Underserved

Populations & Congestion

Resilience and Sustainability

Restoration and Repair of Existing Structures

Seismic Retrofitting

Structural Innovations--Materials, Analysis or Design

Business and Professional Practice

BIM in Business Practice

CASE Spring Risk Management Convocation

Engineer's Role in Leading Social Change

Globalization

Law and Ethics

Licensing and Certification

Profession Practice and Engineering Management

Professional Practices Lessons Learned

Project Delivery Systems

Risk Reduction and Claims Management

Sharing Claim experiences

Trial Designs & Design Examples

Education

ABET Accreditation

Capstone Projects

Educating the Global Engineer

Leadership and Professionalism

Learning and Education Reform

Structural Engineering Curriculum

Teamwork and Non-Technical Education

Forensic

Accidents and accident investigation methods

Collapses and collapse investigation methods

Failure case studies and investigation methods

Failures due to design errors and omissions

Failures due to product or material defects

Natural Disasters

Climate Change

Earthquake

Hurricane

Storm surge

Tornado

Tsunami

Nonbuilding and Special Structures

Analysis procedures for loads other than seismic

Application of Seismic Isolation and Supplemental

Damping to Nonbuilding ST

Codes and Standards Nonbuilding

Design Loads for Nonbuilding Structures and Special

Structures

Performance & Loading of Nonbuilding Structures in Past earthquakes

Practical Design and Detailing

Nonstructural Systems and Components

Analysis procedures for Loads other than seismic

Ceiling Systems, Curtain Walls and Cladding

Codes and Standards-Nonstructural Systems

Design Loads for Nonstructural Systems and

Components

Equipment Anchorage and Design

Mechanical, Electrical and Plumbing Systems

Performance of Nonstructural Components in Past Earthquakes

cartinquakes

Practical Design and Detailing				
Seismic Qualification of Equipment to Meet ASCE 7-10				
Certification				
Research				
Computational Methods of Analysis				
Hybrid Simulation				
New Research				
Novel Structural Materials				
Resilience				
Risk and Reliability Analysis				
Structural Control				
Structural Health Monitoring				
Structural Optimization Methodology & Applications				
Structural Testing				