

Wanda L. Rizer, Art Director/Sr. Graphic Designer

Unique Qualifications

Twenty-eight years of graphic design, art direction, and project management experience. Start-to-finish skills include conceptual design, layout and typography, illustration, digital color correction, and final GPO file preparation for printing. Knowledge and training in traditional photography and studio lighting techniques complement digital photography skills. Considered **Federal Master (National) Level¹** in area of expertise.

Extensive experience producing numerous security, building design guidance, mitigation, and collateral materials in support of Federal, State, and local governments, private sector, and non-profit organizations. Project portfolio examples include publication, presentation, large format display, design, illustration, and outreach materials.

Publications

DHS Science & Technology Directorate, High Performance and Integrated Design Resilience Program (HP&IDR), Building and Infrastructure Protection Series (BIPS)–

BIPS 01: *Aging Infrastructure: Issues, Research, and Technology*, 2010

BIPS 02: *Integrated Rapid Visual Screening of Mass Transit Stations*, 2011

BIPS 03: *Integrated Rapid Visual Screening of Tunnels*, 2011

BIPS 04: *Integrated Rapid Visual Screening of Buildings*, 2011

BIPS 05: *Preventing Structures from Collapsing to Limit Damage to Adjacent Structures and Additional Loss of Life when Explosives Devices Impact Highly Populated Urban Centers*, 2011

FEMA 426/BIPS 06: *Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings*, 2003 and 2011 (Edition 2)

FEMA 428/BIPS 07: *Primer to Design Safe School Projects in Case of Terrorist Attacks and School Shootings*, 2003 and 2012 (Edition 2);

BIPS 10: *Preventing Structures from Collapsing to Limit Damage to Adjacent Structures and Additional Loss of Life when Explosives Devices Impact Highly Populated Urban Centers*, 2012

BIPS 11: *Integrated Rapid Visual Screening of Buildings Interagency Security Committee (ISC) Screening Module*, 2013 (FOUO)

BIPS 12: *A How-to Guide to Mitigate Multihazard Effects Against School Facilities*, 2014

To learn more about DHS HP&IDR Program or to download BIPS publications visit:
www.dhs.gov/files/programs/high-performance-integrated-design-program.shtm



design4impact.com

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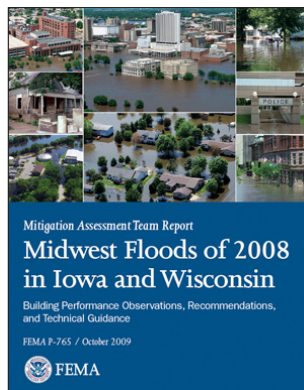
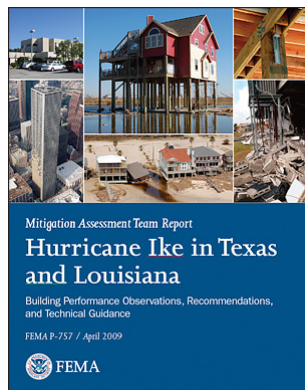
rizer@design4impact.com



¹ Designation as defined by Federal contract procurement specifications: Professional shall possess either a professional registration and a minimum of fifteen (15) years experience in their field of expertise or be considered an expert in their field of experience and over 20 years of experience in their field of expertise.

FEMA Mitigation Assessment Team Building Performance Design and Guidance—

FIA-22: *Hurricane Andrew in Florida*, 1993; **FIA-23:** *Hurricane Iniki in Hawaii*, 1993; **FEMA 277:** *The Oklahoma City Bombing*, 1996; **FEMA 281:** *Hurricane Opal in Florida*, 1996; **FEMA 290:** *Hurricane Fran in North Carolina*, 1997; **FEMA 342:** *Midwest Tornadoes of May 3, 1999*, 1999; **FEMA 403:** *World Trade Center Building Performance Study*, 2002; **FEMA 488:** *Hurricane Charley in Florida*, 2005; **FEMA 489:** *Hurricane Ivan in Alabama and Mississippi*, 2005; **FEMA 548:** *Summary Report on Building Performance, Hurricane Katrina in the Gulf Coast*, 2006; **FEMA 549:** *Hurricane Katrina in the Gulf Coast*, 2006.



Highlights: **FEMA P-757:** *Hurricane Ike in Texas and Louisiana*, 2009; **FEMA P-765:** *Midwest Floods of Iowa and Wisconsin*, 2009.

FEMA National Earthquake Hazards Reduction Program— **FEMA 474:** *Promoting Seismic Safety*, 2005; **FEMA 526:** *Earthquake Safety Checklist*, 2005; **FEMA 527:** *Earthquake Safety Activities, For Children and Teachers*, 2005

FEMA HAZUS Program— **FEMA 366:** *HAZUS-MH Estimated Annualized Earthquake Losses for the United States*, 2008

FEMA Risk Assessment and Risk Management Series—

FEMA E-155: *Building Design for Homeland Security*, 2004; **FEMA 433:** *Using HAZUS-MH for Risk Assessment*, 2005; **FEMA 453:** *Design Guidance for Multi-Hazard Shelters*, 2006; **FEMA 543:** *Design Guide for Improving Critical Facility Safety from Floods and High Winds*, 2006, , **FEMA P-424:** *Design Guide for Improving School Safety in Earthquakes, Floods, and High Wind Buildings*, 2004 and 2010 (Edition 2).

Highlight: **FEMA 430:** *Site and Urban Design for Security, Guidance Against Potential Terrorist Attacks*, 2007



FEMA Construction Design and Guidance—

FEMA 312: *Homeowner's Guide to Retrofitting*, 1998; **FEMA 320:** *Taking Shelter From the Storm: Building a Safe Room Inside Your House*, 1999, revised 2004; **FEMA 347:** *Above the Flood: Elevating Your Floodprone House*, 2000; **FEMA 55:** *Coastal Construction Manual*, Third Edition, 2000; **FEMA 431:** *Tornado Protection: Selecting Refuge Areas in Buildings*, 2003; **FEMA 499:** *Home Builder's Guide to Coastal Construction*, 2005, **FEMA 550:** *Recommended Residential Construction for the Gulf Coast: Building on Strong and Safe Foundations*, 2006;

Highlight: **FEMA 320:** *Taking Shelter From the Storm: Building a Safe Room Inside Your Home or Small Business*, 2008.

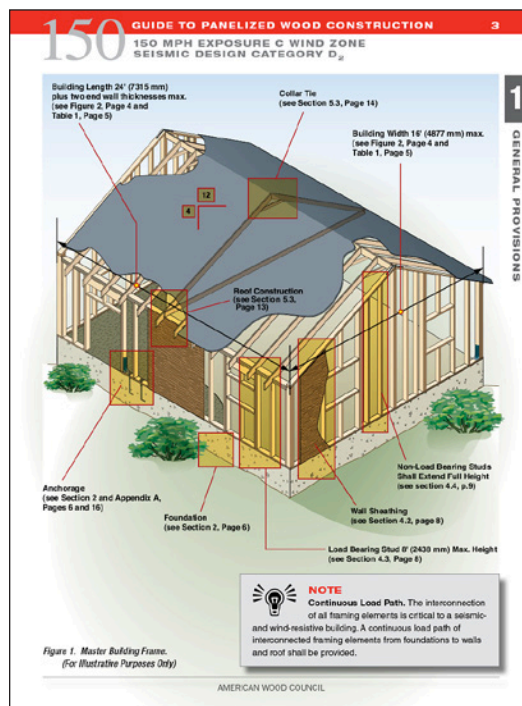
National Institute of Building Sciences –

Mission Critical Facilities: Physical Security Design Manual for VA Facilities, 2006; *Life-Safety Protected: Physical Security Design Manual for VA Facilities*, 2006; *VA Physical Security Standards: Cost Estimates for Physical Security Standards*, 2006.

Highlight: *A How-to Guide to Mitigate Multihazard Effects Against School Facilities*, August 2014 (NIBS version).

American Wood Council (AWC) Wood Construction Design–

Wood Frame Construction Manuals (WFCM) *Guide To Wood Construction In High Wind Areas For One- And Two-Family Dwellings* for 90, 100, 110, 120, and 130 Mph Exposure B building construction recommendation manuals, 2006.



Highlight:

Guide To Modular Wood Construction In High Wind And Seismic Areas 150 Mph Exposure C Wind Zone Seismic Design Category D₂ building construction recommendation manual, 2010.

FEMA Safe Room and Community Shelters Case Studies–

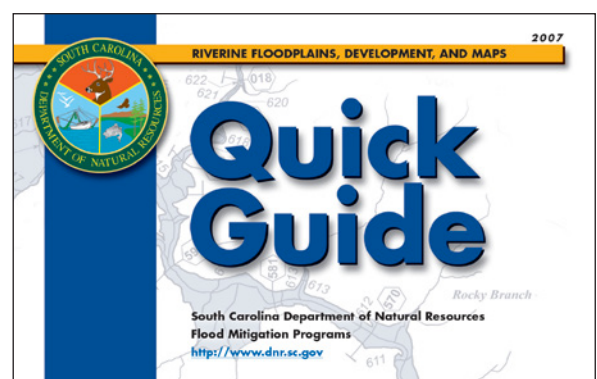
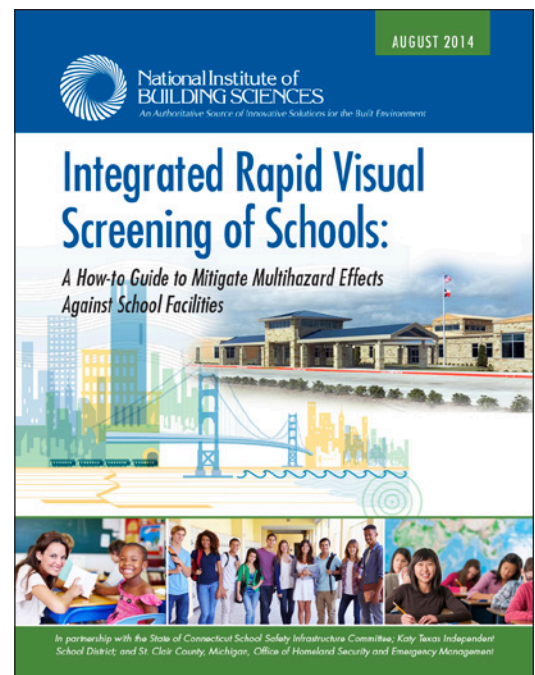
Community Wind Shelter: Background and Research, 2002; *Innovative Floodplain Management: Kinston, North Carolina*, 2002; *Protecting School Children from Tornadoes: Kansas School Shelter Initiative*, 2002; *Residential Safe Rooms: Background and Research*, 2003; *Safe Rooms Save Lives: Oklahoma Safe Room Initiative*, 2003; *Hardened First Responder Facility, Smith County, Texas*, 2003; *Clara Barton Hospital Shelter, Hoisington, Kansas*, 2004; *A Safe Haven for Campers: Iowa State Fair Campground Shelter*, 2004; *Arkansas' Shelter Initiative for Residences and Schools*, 2005.

State and Local Floodplain Management Quick Guides–

Floodplain Management in Missouri: Local Officials Reference Manual, 1999, RCQuinn Consulting, Inc.

State and Local Floodplain Management Quick Guides–

Quick Guides for the states of Alaska, Alabama, Arkansas, California, Colorado, Georgia, Illinois, Kentucky, Michigan, Missouri, Mississippi, North Carolina, New Mexico, Rhode Island, South Carolina, Texas, and Utah, 1999-2012, RCQuinn Consulting, Inc.



Presentations

In addition to numerous PowerPoint presentations created in support of conference and training events, an Adobe Flash-based presentation was developed for FEMA's Risk Assessment Building Science Branch in 2010.

View web streaming version:

<http://www.design4impact.com/BuildSciPres.html>.

Department of Homeland Security—

National Science and Technology Council Committee on Homeland and National Security (CHNS), 2008; IGD Overview, 2009; DHS Stabilization of Buildings, 2009; IGD New Tools, 2009; Security, Energy, and Environment (SEE), 2009; Rapid Visual Screening of Tunnels and Subway Stations, 2009; Bridge Vulnerability, 2009; A Proposed Framework for Prioritizing Critical Infrastructure, 2009; Physicality of Buildings: Building Safer Structures, 2009; International Academy of Astronautics Planetary Defense Conference, 2009; World Health Day: Pan American Health Organization, 2009;

Highlight: *Cutting Edge Risk and Resiliency Tools Webinar, 2012*



National Institute of Building Sciences—

National Institute of Building Sciences: An Authoritative Source of Innovative Solutions for the Built Environment, 2009; Building Enclosure Technology and Environmental Council (BEC), 2009; Principles of Integrated or Whole Building Design, Security, Energy and Environmental Summit, 2009.

National Institute of Building Sciences /Department of Veterans Affairs—

Innovative 21st Century Building Environments for VA Health Care Delivery; 2009; VAFM Transformation Initiative: Enterprise Model Development, 2009.

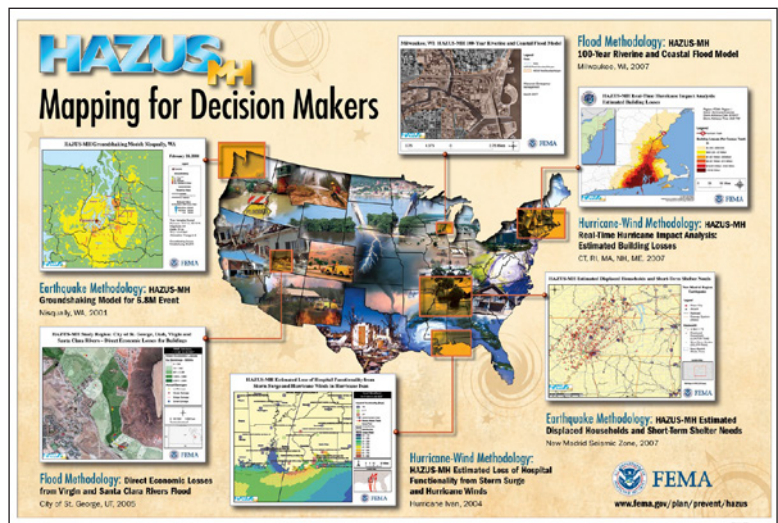


Large Format Displays —

FEMA National Safe Room Exhibit, National Emergency Training Center, Emergency Management Institute—

Create and design display graphics for the Safe Room Exhibit located at EMI campus, Emmitsburg, MD, 2000, 2008.

Exhibit Posters— National Tornado Forum Press Conference, 2000; [FEMA ESRI Map Gallery](#), 2004-2010; FEMA World Trade Center Report, 2005; FEMA 528: [Earthquake Home Hazard Hunt](#) poster, 2005; FEMA [Integrated Mapping for Decision Makers](#), 2005-2007; Greenhorne & O'Mara, Inc., Areas of Expertise, 2005-2007; FEMA HAZUS-MH Application Template Maps, 2005-2008; FEMA Mitigation Works, 2008; FEMA Tornado Impact Poster, 2009; FEMA Building Science Banner, 2010.



Highlight: FEMA [HAZUS-MH Mapping for Decision Makers](#), 2005-2007;

Conference Trade Show Displays—

World Trade Center Report 2003; ASFP Foundation, 2004; MAT Program, Map Modernization, National Hurricane Program, 2004; FEMA Tornado Safe Room Banner, 2005; Greenhorne & O'Mara, Inc., ASFP Conference, 2006; FEMA Mitigation Assessment Team, 2005, 2007; HAZUS-MH: The Risk

Map Assessment Tool, 2009, 2010; FEMA Building Science, 2010, HAZUS-MD banner display, 2010, 2012.



Outreach Materials

Brochures— *eMedicaid*, Maryland Department of Health and Mental Welfare, 2003; *FEMA Risk Management Series*, 2004; FEMA L-231: *Reduce Your Risk From Natural Disasters*, 2005; FEMA L-233: *Taking Shelter From the Storm*, 2005; *Reducing Flood Losses Through the International Codes®: Meeting the Requirements of the National Flood Insurance Program*, FEMA and ICC, 2005; *eTelemetry Product and Case Studies*, 2006.

Interactive CD/DVDs— FEMA 388 CD: *Safe Room and Community Shelter Resource CD*, 2001; FEMA 403 CD: *World Trade Center Building Performance Study*, 2002; FEMA 416 CD: *Using GIS to Demonstrate Successful Floodplain Management*, 2002; FEMA 479 CD: *Developing and Promoting Mitigation Best Practices and Case Studies Community Strategy Toolkit*, 2004; FEMA 372 CD, Edition 2: *Mitigation Resources for Success*, 2005; FEMA 74 CD: *Earthquake Hazard Mitigation for Nonstructural Elements*, 2005; FEMA 154 CD: *Rapid Visual Screening of Buildings for Potential Seismic Hazards*, 2005; *FEMA 2005 NEHRP Publications*, 2006; FEMA 232 CD: *Homebuilders' Guide to Earthquake Resistant Design and Construction*, revised 2013.



Highlight: FEMA P-753 DVD: *2009 NEHRP Recommended Seismic Provisions for New Buildings and Other Structures: A Compendium*, 2014.

Postcards— FEMA L248: *FEMA Building Disaster Resilient Communities*, 2005; *Introducing Locate 3.2*, *eTelemetry/Force3*, 2006; *SmartVent: Learn How to Design and Construct Code-Compliant, Flood Sustainable Homes*, 2007; *HAZUS-MH Annual HAZUS Users Conference*, 2009-2011, Maryland State Highway Administration, 2010-2011

Website Design Guidance— **Disaster Assistance Improvement Project (DAIP)**– Web design mock-ups, graphics, and logo development for new Federal

DisasterAssistance.gov
ACCESS TO DISASTER HELP AND RESOURCES

web-based disaster assistance portal, 2009; **USACE, New Orleans District**– Web design, re-branding, and design guidance for web overhaul project, 2008; **eTelemetry**– Provided re-branding and web-related graphics, 2006; Coordinate with FEMA web services personnel to provide web design and graphics for the FEMA MAT, HAZUS-MH, RMS, and Safe Room and Community Shelter web pages, 1998-2010.



Highlight: **Capitalert.gov** Web design mock-ups, graphics, and logo development, 2014.

Webinars and Workshops— *US-UK Tunnels, Bridges, and Stadia Workshop*, 2008; *Building Design for Homeland Security Course: Protection of Infrastructure and First Responder Technology Workshop*, A United States and Sweden bilateral cooperative, 2010; *Resiliency of the National Building Inventory– Creating a Roadmap for the Future*, 2011; *Ultra-High Performance Concrete Workshop*, 2011; *Cutting Edge Risk and Resiliency Tools Webinar*, 2012; *Resilient Buildings Workshop: Integrating Materials, Systems, Resilience, and Sustainability*, 2012.

