



# **Doing More with Less: Mitigation in a Changing Environment**

**2012 International Hazard Mitigation Practitioners Workshop**

**July 17-18, 2012**

**Omni Interlocken Resort  
Broomfield, Colorado**

## Workshop Sponsors

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## Program Theme

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The theme of the 2012 International Hazard Mitigation Practitioners Workshop is “*Doing More with Less: Mitigation in a Changing Environment.*” This year’s theme highlights three central challenges that mitigation practitioners must regularly confront while also offering myriad examples of mitigation success stories.

First, disaster events and losses are on the rise. Globally, the number of disasters has increased fourfold during the past three decades—from about 120 per year during the 1980s to roughly 500 per year now. Developing countries endure the greatest loss of life when disaster strikes, with more than 95 percent of all deaths caused by disasters occurring in these nations. The United States has entered an era of regular billion dollar disasters that destroy the natural and built environments and upend countless lives.

Second, these disaster losses have been exacerbated by a number of complex demographic, social, economic, and environmental changes that have rendered more people vulnerable to disaster than ever before. Rising disaster losses are not simply the result of “natural” processes and an ever more restless earth. These losses emerge from the concentration of infrastructure in hazard prone areas; a lack of strong planning and zoning processes; population growth and urbanization; the rising number of poor people living in some of the world’s riskiest locations; and a variety of other factors that have placed more vulnerable people and more property in harm’s way.

Third, in this time of enormous disaster losses, budgets for hazards mitigation programs in the United States at the local, state, and federal levels have been significantly reduced. Thus, mitigation practitioners are being asked to *do more with less* during a period when their expertise and skills are more necessary than ever before. In developing countries that experience exceptionally high levels of risk and hazards exposure, mitigation programs and solutions may not exist at all.

The 2012 International Hazard Mitigation Practitioners Workshop will address these three challenges head on. But we will do more than talk about the current problems facing the field of hazards mitigation. A central goal of this year’s workshop is also to draw upon the knowledge and expertise of mitigation practitioners from around the world who *are* doing more with less. At this workshop there will be an open exchange of ideas between and among policy experts and local mitigation champions, grassroots leaders, private sector professionals, and others who have dedicated their professional careers to reversing the tide of ever growing disaster losses. Thank you for joining us.

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## Program Organization and Program Tracks

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This year’s workshop will include three plenary sessions and will offer three concurrent breakout tracks—for a total of six additional sessions—organized around the areas of (1) mitigation challenges; (2) mitigation needs; and (3) mitigation success stories. The key themes from this year’s workshop will be captured in a series of visual recordings.

## Program Agenda

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### Tuesday, July 17, 2012 – 4:00-7:30 p.m.

4:00 – 4:15 p.m.	Registration	<u>Centennial E</u>
4:15 – 4:45 p.m.	Welcome Overview of Natural Hazards Mitigation Association (NHMA) Alessandra Jerolleman, Executive Director, NHMA Edward Thomas, President, NHMA Overview of the 2012 Program Agenda and Workshop Theme Lori Peek, Associate Professor, Colorado State University	<u>Centennial E</u>
4:45 – 6:15 p.m.	<b>Plenary 1: Doing More with Less: Mitigation in a Changing Environment</b> <b>Moderator:</b> Dennis S. Mileti, Professor Emeritus, University of Colorado-Boulder <b>Speakers:</b> Marco F. Cocito-Monoc, Director of Regional Initiatives, Greater New Orleans Foundation Deborah Ingram, Assistant Administrator, Recovery Directorate, Federal Emergency Management Agency (FEMA), Department of Homeland Security (DHS) Mike Kline, Rivers Program Manager, Vermont Department of Environmental Conservation Dave Miller, Associate Administrator, Federal Insurance and Mitigation Administration (FIMA), Federal Emergency Management Agency (FEMA), Department of Homeland Security (DHS) <b>Recorder:</b> Lynne M. Carter, Associate Director, Southern Climate Impacts Planning Program and Coastal Sustainability Studio, Louisiana State University <b>Session Description:</b> <i>This opening plenary session will address the three major themes of this year's workshop: mitigation challenges, mitigation needs, and mitigation successes. Each speaker will draw on his or her domestic and/or international experience and will talk for approximately five minutes (for a total of 15 minutes) on each of the three themes. There will also be time for Q&amp;A at the end of the session.</i>	<u>Centennial E</u>
6:15 – 7:30 p.m.	Joint Reception with NHMA Practitioners and IRCD Hazards Researchers	<u>Lobby Court and Terrace</u>

### **NHMA 2012 Award Presentations**

#### *NHMA 2012 Safe Development Leadership Award:*

The Denver Urban Drainage and Flood Control District

#### *NHMA 2012 News Media Awards:*

*Print Media* – David Hammer, Reporter, New Orleans Times-Picayune

*Radio* – Jeanne Meserve, Independent Journalist, WTOP Radio, Washington, DC

*Local TV* – Travis Meyer, Chief Meteorologist, KOTV, Tulsa, Oklahoma

*National TV* – Jim Cantore and Eric Fisher, Meteorologists, The Weather Channel

**Wednesday, July 18, 2012 – 7:30 a.m.-5:00 p.m.**

- 7:30 – 8:30 a.m. Continental Breakfast Centennial Foyer
- 7:45 – 8:15 a.m. **Breakfast Forum Doubleheader:** Centennial E  
(1) Weather Ready Nation: Institutional Obstacles and Opportunities for Warnings;  
and (2) How to Best Use NHMA Will, Skill, and Time  
**Organizer and Facilitator:** John Wiener, University of Colorado-Boulder  
**Forum Description:** *All workshop attendees are invited to attend this informal morning meeting. It will be dedicated to exchanging views on the positive aspects and opportunities for growth in terms of what agencies and organizations involved in using or applying hazard forecasts and warnings are doing. The last 10-15 minutes of the session will focus on collaborative opportunities and steps for moving forward from the discussion.*
- 8:30 – 10:00 a.m. **Plenary 2:** Overcoming Mitigation Challenges and Moving Forward Centennial E  
**Moderator:** Bob Anderson, Senior Engineering Geologist, California Seismic Safety Commission  
**Speakers:**  
Barbara Carby, Director, Disaster Risk Reduction Centre, University of the West Indies, Mona Campus  
Rosemarie Geier Grant, Program Director of Research, Technology Research and Innovation Laboratory, Building Technology Research Unit, State Farm Insurance  
William H. Hooke, Director, Policy Program, American Meteorological Society  
**Recorder:** Lisa Grow Sun, Associate Professor, Brigham Young University Law School  
**Session Description:** *This second plenary will focus on new and innovative approaches to hazards mitigation. Speakers will discuss challenges and obstacles that they have faced in moving forward with their mitigation work, while also highlighting mitigation opportunities and successes.*
- 10:00 – 10:15 a.m. Break
- 10:15 – 11:30 a.m. Breakout Sessions

***Track 1: Mitigation Challenges***

**Session Title:** The Promises and Pitfalls of Encouraging the Adoption of Higher Mitigation Standards Alder

**Organizer:** Cynthia Palmer, Workshop Planning Committee Member, NHMA  
**Moderator:** Gavin Smith, Executive Director, Department of Homeland Security Center of Excellence—Coastal Hazards Center, University of North Carolina-Chapel Hill  
**Speakers:**  
Laura M. Herbert, Lead Mitigation Planner, Florida Division of Emergency Management  
John Ingargiola, Senior Engineer, Federal Emergency Management Agency (FEMA)  
Janiele Maffei, Chief Mitigation Officer, California Earthquake Authority  
**Recorder:** Judy Sears, Community Liaison, Regional Training Institute-Community Disaster Preparedness, Humboldt State University  
**Session Description:** *Local government officials are often resistant to adopt higher mitigation standards in their communities due to a variety of factors, including the perceived cost and lack of perceived immediate term payoff. This session will focus on overcoming these challenges in contexts that experience earthquakes, floods, hurricanes, and tornadoes, through raising awareness and emphasizing benefits for communities.*

**Track 2: Mitigation Needs**

**Session Title:** Presidential Policy Directive 8: Integrating Mitigation into the Whole Community Spruce  
**Organizer:** Terri Turner, Development Administrator, City of Augusta Planning and Development, Augusta, Georgia  
**Moderator:** Roy Wright, Deputy Director, Risk Analysis, Federal Insurance and Mitigation Administration (FIMA), Federal Emergency Management Agency (FEMA), Department of Homeland Security (DHS)  
**Speakers:**  
 David Mallory, Senior Project Engineer, Urban Drainage and Flood Control District, Denver, Colorado  
 Darrin Punchard, Board Member, NHMA  
 Jim Schwab, Manager, Hazards Planning Research Center, American Planning Association  
**Recorder:** Deborah Mills, Hazard Mitigation Client Services Manager, Dewberry  
**Session Description:** *The Presidential Policy Directive 8 (PPD-8), signed by President Obama in March of 2011, seeks to strengthen the security and resilience of the United States through systematic preparation for the threats that pose the greatest risk to the security of the Nation, including acts of terrorism, cyber attacks, pandemics, and catastrophic natural disasters. The Directive calls for national preparedness to be the shared responsibilities of all levels of government, private and non-profit sectors, communities, and individual citizens. This session will feature speakers from various stakeholder groups discussing the possibility of facilitating an integrated, all-of-Nation, capabilities-based approach to preparedness.*

**Track 3: Mitigation Success Stories**

**Session Title:** The Role of Private / Nonprofit Sector Innovation in Mitigation Centennial E  
**Organizer and Moderator:** Tim Lovell, Executive Director, Tulsa Partners, Inc.  
**Speakers:**  
 Tom Bennett, Past President, National Storm Shelter Association  
 Elizabeth English, Associate Professor, School of Architecture, University of Waterloo  
 Sheryl Siddiqui, Co-Chair, Language and Culture Bank, Tulsa Partners, Inc.  
**Recorder:** Ann Patton, Owner, Ann Patton Company, LLC  
**Session Description:** *This session will highlight the challenges and successes of private and nonprofit sector innovators in the mitigation field. The focus will be on how innovation fostered by the public, private, and nonprofit sectors can assist in meeting the environmental and hazard mitigation challenges faced by local communities.*

11:30 a.m. – Noon	Visual Recorder Plenary Session: Breakout Groups Report Back	<u>Centennial E</u>
Noon – 1:00 p.m.	Lunch	<u>Outdoor Pavilion</u>
1:00 – 1:30 p.m.	<b>Keynote Speakers:</b> Tom Bennett, Meteorologist and Executive Producer, KOTV, Tulsa, Oklahoma Travis Meyer, Chief Meteorologist, KOTV, Tulsa, Oklahoma	<u>Centennial E</u>

1:30 – 2:45 p.m. Breakout Sessions

***Track 1: Mitigation Challenges***

**Session Title:** The Challenge of Making Mitigation Matter Spruce  
**Co-Organizers and Co-Moderators:** Erin Capps, Project Manager, H2O Partners, Inc.  
and Jim Murphy, Project Director, URS Corporation

**Speakers:**

Walt Peacock, Professor and Director, Hazard Reduction and Recovery Center,  
Texas A&M University

Rhonda Price, Committee Coordinator, Gulf of Mexico Alliance (GOMA)  
Coastal Community Resilience Priority Issue Team

Chris White, Chief Operations Officer, Anchor Point Group, LLC

Roy Wright, Deputy Director, Risk Analysis, Federal Insurance and Mitigation  
Administration (FIMA), Federal Emergency Management Agency  
(FEMA), Department of Homeland Security (DHS)

**Recorder:** French Wetmore, President, French & Associates, Ltd.

**Session Description:** *This session will focus on the challenge of making mitigation matter in local communities. In particular, speakers will address the difficulties with defining relevant risks in an ever-changing environment, increasing public awareness of mitigation issues, and utilizing private and public sector resources to develop and implement meaningful mitigation projects.*

***Track 2: Mitigation Needs***

**Session Title:** International Experiences of Natural Hazard Alder  
Mitigation Professionals

**Organizer and Moderator:** Tom Fahy, Managing Director, Capitol CR Group

**Speakers:**

Larry Brazil, President and CEO, Riverside Technology, Inc.

David Curtis, Vice President, WEST Consultants, Inc. and President, National  
Hydrological Warning Council

Bob Glasgow, Structural Engineer and Principal, Miyamoto International

**Recorder:** Antonia Rosati, North American Regional Climate Change Assessment  
Program (NARCCAP) User Community Liaison, National Center for Atmospheric  
Research (NCAR)

**Session Description:** *This session will focus on needs in international mitigation projects, the decision support solutions achieved, and the sustainable outcomes benefitting diverse people. The speakers will draw on their experiences in various countries and regions around the globe.*

*Track 3: Mitigation Success Stories*

	<p><b>Session Title:</b> Mitigation Successes on the Ground <span style="float: right;"><u>Centennial E</u></span> <b>Organizer and Moderator:</b> Darrin Punchard, Senior Project Manager, AECOM <b>Speakers:</b> Eugene Henry, Hazard Mitigation Manager, Hillsborough County Planning and Growth Management, Florida (invited) Christina Randall, Wildfire Mitigation Administrator, Colorado Springs Fire Department, Colorado Timothy Trautman, Flood Mitigation Program Manager, Charlotte-Mecklenburg Storm Water Services, North Carolina <b>Recorder:</b> Stacy Franklin Robinson, Senior Planner, Atkins <b>Session Description:</b> <i>This session will highlight the challenges and successes in overcoming obstacles (including “doing more with less”) by practitioners working in local communities to increase awareness and reduce the risk of natural hazards. Panelists represent three different regions of the country and will discuss their approaches to three different hazards—floods, hurricanes, and wildfires.</i></p>
2:45 – 3:15 p.m.	Visual Recorder Plenary Session: Breakout Groups Report Back <span style="float: right;"><u>Centennial E</u></span>
3:15 – 3:30 p.m.	Break
3:30 – 4:45 p.m.	<p><b>Plenary 3:</b> Moving NHMA Forward <span style="float: right;"><u>Centennial E</u></span> <b>Moderator:</b> Jo Ann Howard, President, H2O Partners, Inc. and Erin Capps, Project Manager, H2O Partners, Inc. <b>Visual Recorder:</b> Marilyn Martin, Operations Manager, H2O Partners, Inc. <b>Session Description:</b> <i>The goal of the closing plenary is twofold. First, participants will synthesize the main ideas that have emerged throughout the plenary and breakout sessions at this year’s workshop. Second, we will focus on identifying action items for moving NHMA forward with its mission to reduce disaster losses.</i></p>
4:45 – 5:00 p.m.	Closing and Next Steps <span style="float: right;"><u>Centennial E</u></span>
5:00 – 7:00 p.m.	NHMA Reception and Celebration <span style="float: right;"><u>Private Dining Room</u></span>

## Participant Names and Email Addresses

Name		Company	Email Address
Robert	Anderson	California Earthquake Authority	anderson@stateseismic.com
Mike	Anderson	STARR	mike.anderson@stantec.com
Richard	Becker	Greenhorne & O'Mara	Rbecker@greenhorne.com
Miriam	Belblidia	City of New Orleans	mbelblidia@gmail.com
Tom	Bennett	National Storm Shelter Association	tom@jimsafe.com
Joseph	Booth	Stephenson Disaster Management Institute - LSU	jbooth7@lsu.edu
Stephanie	Bray	U.S. Army Corps of Engineers	stephanie.n.bray@usace.army.mil
Larry	Brazil	Riverside Technology, Inc.	larry.brazil@riverside.com
Chad	Bunger	City of Manhattan	bunger@ci.manhattan.ks.us
Erin	Capps	H2O Partners, Inc.	ecapps@h2opartnersusa.com
Barbara	Carby	Disaster Risk Reduction Center	barbara.carby@uwimona.edu.jm
Dave	Carlton	Atkins	dkcarlton@pbsj.com
Lynne	Carter	LSU, SCIPP	lynne@srcc.lsu.edu
Bradford	Case	City of New Orleans	bwcase@nola.gov
Marco	Cocito-Monoc	Greater New Orleans Foundation	marco@gnof.org
Caroline	Cunningham	Atkins	caroline.cunningham@atkinsglobal.com
David	Curtis	West Consultants	dcurtis@WESTconsultants.com
Daya	Dayananda	City of Pasadena	DDayananda@ci.pasadena.tx.us
William	DeGroot	Urban Drainage and Flood Control District	bdegroot@udfcd.org
Elizabeth	English	University of Waterloo	english@ecenglish.ca
Dolan	Eversole	University of Hawaii	eversole@hawaii.edu
Tom	Fahy	Capitol GR - Weather, Warnings & Wireless Technologies	tfahy@capitolgr.com
Ronald	Flanagan	Flanagan & Associates, LLC	RFlanagan@rdflanagan.com
Michael	Garner	Michael Baker Corporation	MGarner@mbakercorp.com
Bob	Glasgow	Miyamoto International	Bglasgow@miyamotointernational.com
Rose	Grant	State Farm	rose.grant.gsxj@statefarm.com
Laura	Herbert	Florida Division of Emergency Management	laura.herbert@em.myflorida.com
Barry	Hokanson	PLN Associates	barryhokan@yahoo.com
William	Hooke	American Meteorological Society	hooke@ametsoc.org
Jo Ann	Howard	H2O Partners	iamanrd3@aol.com
Qiyang	Hu	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	qiyang.hu@giz.de
Iain	Hyde	Colorado Division of Homeland Security and Emergency Management	iain.hyde@state.co.us
John	Ingargiola	FEMA	john.ingargiola@dhs.gov
Deborah	Ingram	Federal Emergency Management Agency	Deborah.Ingram@fema.dhs.gov
Alessandra	Jerolleman	Natural Hazard Mitigation Association	agazzo@gmail.com
Kelly	Klima	Center for Clean Air Policy	kelly.klima@gmail.com
Mike	Kline	Vermont Department of Environmental Conservation	mike.kline@state.vt.us
Marianne	Knoy	California Earthquake Authority	Marianne_Knoy@CalQuake.com
Richard	Krajeski	Natural Hazards Mitigation Association	krajeskipeterson@msn.com
David	Krantz	Columbia University	dhk@columbia.edu
Jane	Kushma	Journal of Homeland Security and Emergency Management	jkushma@jsu.edu
Shirley	Laska	University of New Orleans	slaska@uno.edu
Brian	Laughlin	Georgia Emergency Management Agency	Brian.Laughlin@gema.ga.gov
Marcy	Leach	City of Rockford	Marcy.Leach@rockfordil.gov
Tim	Lovell	Tulsa Partners	tulsapartners@gmail.com

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Practitioners Workshop  
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<b>Name</b>		<b>Company</b>	<b>Email Address</b>
Janiele	Maffei	California Earthquake Authority	MaffeiJ@calquake.com
David	Mallory	Urban Drainage & Flood Control District	dmallory@udfcd.org
Marilyn	Martin	H2O Partners	marilyn@h2opartnersusa.com
David	Maurstad	OST, Inc./STARR	dmaurstad@ostglobal.com
Travis	Meyer	Griffin Communications / KOTV News On Six, Tulsa OK	travismeyer@tulsapartners.org
Dennis	Mileti	University of Colorado Natural Hazards Center	dennis.mileti@colorado.edu
David	Miller	DHS/FEMA/FIMA	david.miller@fema.dhs.gov
Barbara	Miller	Jefferson County Homeland Security and Emergency Management	bmiller@jeffersoncountyywv.org
Deborah	Mills	Dewberry	dmills@dewberry.com
Jim	Murphy	URS Corporation	jim.murphy@urs.com
Maggie	Olivier	UNO-CHART	mlolivi1@uno.edu
Oluponmile	Olonilua	Texas Southern University	olonilua_oo@tsu.edu
Stephan	Parker	Transportation Research Board of The National Academies	saparker@nas.edu
Ann	Patton	Natural Hazard Mitigation Association	ann.patton@sbcglobal.net
Russ	Paulsen	American Red Cross	PaulsenRu@usa.redcross.org
Larry	Pearce	CRHNet	larrypearce@shaw.ca
Lori	Peek	Colorado State University	lori.peek@colostate.edu
Kristina	Peterson	University of New Orleans	KJPETERS@uno.edu
Darrin	Punchard	AECOM	darrin.punchard@aecom.com
Christina	Randall	Colorado Springs Fire Department	crandall@springsgov.com
George	Riedel	Michael Baker Jr., Inc.	George.Riedel@mbakercorp.com
Sam	Riley-Medlock	Association of State Floodplain Managers	sam@floods.org
Kristin	Robinson	DHS/FEMA/FIMA	kristin.robinson@dhs.gov
Stacy	Robinson	Atkins	Stacy.Robinson@atkinglobal.com
Taran	Roddy	Federal Emergency Management Agency	Taran.Roddy@dhs.gov
James	Schwab	American Planning Association	jschwab@planning.org
Judy	Sears	Regional Training Institute - Community Disaster Preparedness	Judith.Sears@humboldt.edu
Sheryl	Siddiqui	Tulsa Partners	sherylsiddiqui@yahoo.com
Patricia	Skinner	LSU AgCenter—Extension Disaster Education Network	pskinner@agcenter.lsu.edu
Nathan	Slaughter	Atkins	nslaughter@pbsj.com
Gavin	Smith	University of North Carolina at Chapel Hill	gavin_smith@unc.edu
Jeff	Sparrow	Michael Baker Jr., Inc	jsparrow@mbakercorp.com
Lisa	Sun	BYU Law School	sunl@law.byu.edu
Edward	Thomas	Natural Hazard Mitigation Association	edwathomas@aol.com
Shea	Thomas	Urban Drainage and Flood Control District	sthomas@udfcd.org
Ken	Topping	California Polytechnic State University	kentopping@aol.com
Tim	Trautman	Charlotte-Mecklenburg Storm Water Services	Tim.Trautman@mecklenburgcountync.gov
Keith	Turi	Federal Emergency Management Agency	Keith.Turi@fema.dhs.gov
Charles	Wallace	Grays Harbor County Emergency Management	cwallace@co.grays-harbor.wa.us
Lincoln	Walther	CSA International, Inc.	lwalther@conshelf.com
Donald	Watson	EarthRise design	EarthRise001@sbcglobal.net
French	Wetmore	French & Associates, Ltd.	FrenchAsoc@aol.com
John	Wiener	University of Colorado at Boulder	john.wiener@colorado.edu
Roy	Wright	FEMA / Federal Insurance and Mitigation Administration	Roy.E.Wright@dhs.gov
Jacqueline	Yannacci	American Red Cross	Jacqueline.Yannacci@redcross.org

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## Session Organizer, Moderator, Speaker, and Recorder Bios

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**Bob Anderson** is a Senior Engineering Geologist at the Alfred E. Alquist (California) Seismic Safety Commission in Sacramento, California. He is a licensed Geologist and Certified Engineering Geologist in California. Mr. Anderson provides advice to the Governor, legislators, and the public on issues related to seismic safety. He also helps monitor and coordinate advanced applied earthquake research and mitigation between the California Earthquake Authority, the Commission, and the seismic hazard and earthquake engineering research communities. Mr. Anderson's emphasis on seismic safety issues are focused on seismic and tsunami hazard and loss reduction to the built environment, including the residential and commercial sectors, energy infrastructure (including nuclear power), ports, and harbors. Prior to joining the Commission, Mr. Anderson worked on natural hazard and resource issues for power plants, landfill design and remediation, residential and commercial development, and conducted faulting and landslide hazard assessments. During his 25 years as a geologist, Mr. Anderson has worked in California, Oregon, Washington, Nevada, Alaska, Turkey, Taiwan, Mexico, the Republic of South Africa, Kyrgyzstan, the Republic of Indonesia, and Jamaica. He has a B.A. in Geology from California State University-Sacramento and a M.S. in Homeland Security from San Diego State University.

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**Tom Bennett** is a board member and past president of the National Storm Shelter Association. He serves as Vice President and General Manager of Jim Giles' Safe Rooms, LLC, based in the heart of tornado alley, Tulsa, Oklahoma. Tom is also a meteorologist and Executive Weather Producer for the Tulsa CBS station KOTV—The News on 6. In addition, Tom is the majority owner of Bennett Native American Enterprises, LLC, a Native American-owned steel fabricator and steel erector serving the Oklahoma and surrounding states region. Tom, a proud Cherokee Indian, and his business produces ALL Jim Giles Certified Safe Rooms sold in Oklahoma.

Tom and the late Jim Giles worked together in TV weather for 16 years until Jim's retirement in 2006. After his life changing experience with an F4 tornado that moved through east Tulsa in 1975, Tom has been devoted to the study of severe weather and how to protect people through planning, mitigation and resiliency. He currently serves on the Board of Directors for Tulsa Partners and the Natural Hazard Mitigation Association (NHMA); organizations related to disaster mitigation and resiliency.

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**Larry Brazil** is the President and Chief Executive Officer of Riverside Technology, Inc. (Riverside). In his role as CEO, he provides strategic direction and oversight to corporate operations. He specializes in the development and evaluation of domestic and international projects related to the monitoring, use, and protection of natural resources. In his technical role as a water resources engineer, he is involved in decision support system development, deterministic and stochastic modeling, information system design, and data analysis. He spent 11 years at the Hydrologic Research Laboratory of the National Weather Service where he developed and implemented components of real-time operational hydro-meteorological monitoring and forecasting systems. Dr. Brazil's experience in water management has included technical assistance in forecasting water availability in more than 30 countries for operational purposes such as irrigation management, hydropower production, and water supply using a variety of software systems. Applications of his work also have included use of hydro-meteorological forecast information for flood mapping, and emergency response and preparedness.

Dr. Brazil has a B.S. degree from the Massachusetts Institute of Technology and M.S. and Ph.D. degrees from Colorado State University, all in Civil Engineering/Water Resources. He has 38 years of experience and has published over 40 papers in his areas of expertise.

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**Erin Capps** is a licensed attorney with expertise in the Stafford Act and integrating 44 CFR Sections 404 and 406. As Project Manager at H2O Partners Inc., Erin oversees the development of FEMA Hazard Mitigation Assistance (HMA) plans and grants as well as Public Assistance (PA) recovery efforts and helps develop and manage Community Development Block Grants (CDBG). She has worked closely with cities, counties, regional groups, non-profits, and state and federal agencies with planning and recovery efforts to help build resilient communities, and this broad experience in working with different stakeholder groups has helped shape her understanding of 44 CFR, how it is interpreted and how it can be used to leverage funding for various entities. Erin holds a Juris Doctor

from Baylor University School of Law and a Bachelor of Science degree in Advertising with a specialization in business from the University of Texas at Austin.

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**Barbara Carby** is a disaster risk management professional with 20 years national and international experience in risk reduction and pre- and post-disaster planning and interventions. Her work experience includes being a former Director General, Office of Disaster Preparedness and Emergency Management, Jamaica as well as the first Director, Hazard Management Cayman Islands (HMCI), where she had the responsibility of establishing the national disaster risk management office as well as national policies and programs in disaster risk management. She is currently Director, Disaster Risk Reduction Centre, University of the West Indies in Jamaica.

She has served the Organization of American States (OAS), Association of Caribbean States (ACS), the Caribbean Disaster Emergency Management Agency (CDEMA), and the United Nations in a voluntary capacity including:

- Member and Vice Chairman of the Scientific and Technical Committee for the International Decade for Natural Disaster Reduction in the 1990s
- Member of the Advisory Board of the United Nations Central Emergency Relief Fund: 2004 – 2006.

She has also been a long-standing partner of the United Nations International Strategy for Disaster Reduction in promoting disaster risk reduction globally including presentations to ECOSOC and the General Assembly. She is currently a Member of the Catastrophic Risks Advisory Council of the World Economic Forum. She is the recipient of national awards of Commander of the Order of Distinction from Jamaica and Knight of the National Order of Merit from France for her work in disaster risk management. She has a Ph.D. in Geochemistry and a B.Sc. in Geology from the University of the West Indies as well as a diploma in Applied Geology from Nancy, France.

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**Lynne Carter** is Associate Director and Program Manager, Southern Climate Impacts Planning Program (SCIPP) – a stakeholder-driven program focusing on serving the adaptation and climate information needs of the south-central United States (Texas, Oklahoma, Louisiana, Mississippi, Arkansas, and Tennessee). She is also Associate Director for the Coastal Sustainability Studio, also at Louisiana State University. The studio represents an effort to bring together designers (architects and landscape architects) with engineers and coastal scientists to rethink what might work along the coast. She is the Director of the Adaptation Network, a non-profit, established in 2006 to assist U.S. communities to build resilience and reduce vulnerabilities to the unavoidable impacts of climate change.

Dr. Carter has worked on a wide range of climate change issues since 1988, and has organized conferences and workshops on various aspects of climate change, including around natural resource adaptations for the New England Governors/ Eastern Canadian Premiers. She was the Regional Liaison to the 19 regions for the first *U.S. National Assessment*. She has developed and taught semester long and short courses (including at the Environmental Change program at Oxford), delivered more than 60 public presentations on climate change, written and contributed to articles and reports on climate change for a variety of audiences, including the most recent U.S. National Assessment - *Global Climate Change Impacts in the United States*. Lynne is a member of the Federal Advisory Committee for the 2013 U.S. National Climate Assessment and a convening lead author for the SE and a lead author for the Adaptation chapter; ICLEI's Climate Adaptation Experts Advisory Committee; and the American College & University Presidents' Climate Commitment Adaptation Committee. Her educational background includes science (BS, MS), science policy (MMA), and science education (Ph.D).

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**Marco F. Cocito-Monoc** oversees the Greater New Orleans Foundation's (GNOF) regional initiatives, a position he has held since summer of 2007. Marco has extensive experience in community revitalization and economic development, having been executive director of Baltimore's Southeast Community Development Corporation for four years and, prior to that, having led economic development initiatives at the municipal and regional levels. While in Baltimore, Marco created the largest bi-lingual, HUD-certified housing counseling program in Maryland, led a Healthy Neighborhoods revitalization program that succeeded in organizing and improving over 350 blocks in diverse sections of the city, led a commercial corridor revitalization initiative, and was part of a state-wide philanthropic and non-profit consortium that created a flexible refinancing system for homeowners who had been victimized by sub-prime lenders and were in danger of losing their homes.

Prior his time in Maryland, Marco was director of economic development for the City of Covington, Louisiana. In that capacity, he championed smart growth and mixed income housing by working to shore up housing quality and

demand in various “neighborhoods in the middle” and by making the revitalization of that city’s historic downtown a departmental priority (which bore fruit in the form of 90 net businesses gained therein). He also helped launch Covington’s ambitious, nation-wide branding and marketing campaign, while working to promote its creative economy. A great proponent of developing Covington’s role within the wider metropolitan area, Marco was an active member of the New Orleans Regional Planning Commission, helping that entity to craft the Crescent City’s first urban Main Streets program. Marco’s background in economic and community development was enriched by earlier work in Hammond and Houma, Louisiana, where he directed the former’s Downtown Development District and the latter’s Main Street program.

Marco earned his B.A. and M.A. degrees in political science from the University of Massachusetts at Amherst and his doctorate in history from the University of Cambridge in England, where he was also a research and teaching fellow at Magdalene College. In 2006, he completed a course in “Outcome Measurement for the Effective Management of Non-Profit Organizations” at the Harvard Business School. In 2008, he was named a Hull Fellow by the Southeastern Council of Foundations. He has spoken extensively on issues related to community development, has published numerous articles, and has translated the works of the contemporary philosopher, Luce Irigaray.

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**David Curtis** is Vice President of WEST Consultants in Folsom, California. For the past 36 years, Dr. Curtis has been on the leading edge of hydro-meteorological and flood risk management services. He has been involved in the design, development, and implementation of award winning innovations in more than 50 automated environmental and flood monitoring systems across the United States and in 18 countries abroad. Fault-tolerant designs, dual redundant computer configurations, and integrated networks are among the concepts advanced by Dr. Curtis. In addition, Dr. Curtis has contributed significantly to the economic analysis of flood warning systems, quantified the communication capacities of ALERT flood warning systems, and developed procedures for designing gage networks. His efforts led to the Connecticut Statewide Flood Warning System, the nation’s first such statewide system. Dr. Curtis designed and led the implementation of an early flood warning system for the Chehalis River in Lewis, Thurston, and Grays Harbor Counties in western Washington. The system included a web-based data acquisition, dissemination and warning component, additional rain, temperature and stream gages, and flood inundation mapping along the Chehalis River and key tributaries.

Since 1993, Dr. Curtis has been applying new weather information technologies such as radar-rainfall estimates to hydrologic analysis and modeling. He developed and maintained a national database of rainfall estimates derived from both civilian and defense Doppler radars in the United States. He is pioneering methodologies to determine the spatial properties of individual storm cells using large calibrated radar-rainfall data sets. The results are leading to the development of new hydrologic design standards at locations across the United States and an improved understanding of the effect of microclimates on local ecosystems. Dr. Curtis led several successful efforts to integrate real-time gage-adjusted radar rainfall estimates into flood warning systems and into supervisory control systems for real-time stormwater management. He also helped establish an inventory of high-resolution gage-adjusted radar-rainfall estimates covering the entire state of Florida from 1993 to present day. It is the largest existing dataset of its type.

Dr. Curtis served on the California Department of Water Resources Central Valley Flood Protection Plan Climate Change Team. The team evaluated California’s Central Valley flood system performance, system resiliency, flood forecasting, and levee stability challenges in the face of climate change. Dr. Curtis was the program manager for the evaluation of hydrology and climate change findings in the Department of Interior Secretary’s determination Klamath River Dam removal. Following a career as a research hydrologist, river forecaster, and flash flood hydrologist for the National Weather Service, Dr. Curtis co-founded a hydrologic software company specializing in flood warning, which later merged with a manufacturer of hydro-meteorological instrumentation. Internationally recognized as an expert on hydrology, Dr. Curtis has authored more than 70 technical articles and reports. In June 1989, Dr. Curtis accepted the Computerworld/Smithsonian Award for Innovative Uses of Information Technology in the Energy, Natural Resources, and Environment category. Dr. Curtis also received the United States Department of Commerce Bronze Medal for superior service for the development and implementation of the Norwich, Connecticut, flood warning system.

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**Elizabeth English** is Associate Professor at the University Of Waterloo School of Architecture in Cambridge, Ontario. She was formerly Associate Professor at the Louisiana State University Hurricane Center and has held Assistant or Visiting Professorships at Tulane University, the University of Minnesota, the University of Michigan, and Rhode Island School of Design. She holds an AB in Architecture and Urban Planning from Princeton University, an M.S. in Civil Engineering from the Massachusetts Institute of Technology, and an M.S. and Ph.D. in Architectural Theory from the University of Pennsylvania.

Her areas of research include the study of wind loads on tall buildings, the aerodynamics of wind-borne debris, and strategies to mitigate hurricane damage to buildings. She has lectured extensively across the United States and Canada, and also in the Netherlands, France, the UK, Russia, Japan, Korea, Australia, and New Zealand. English is the Founder and Director of the Buoyant Foundation Project, which seeks to retrofit existing shotgun houses in flood-prone areas with amphibious foundations. When not teaching in Canada, she resides in Breaux Bridge, Louisiana, where she continues her work on hurricane damage mitigation with particular application to post-Katrina New Orleans.

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**Tom Fahy** worked for President Clinton and for several years with House Congressional Leadership. His introduction to aspects of natural hazards mitigation was working on infrastructure protection legislation and later when working with state emergency management agencies on the public alert and warning system for Maryland, Delaware, the District of Columbia, and the National Capitol Region.

Tom has been recognized for his service by the U.S. Department of Justice and the National Center for Missing and Exploited Children for his work on the National AMBER Alert Plan. In 2005, the National Weather Service presented him with its "*Mark Trail Award*" for his intergovernmental advocacy efforts to improve emergency warning capabilities and for strengthening NOAA's ties with the broadcast industry to improve public warnings. In 2007, NOAA again recognized his efforts after he produced video announcements on the societal benefits of Global Earth Observations. In 2011, he helped coordinate production to develop a video announcement for the Natural Hazards Mitigation Association on the need for SafeRooms.

He serves on the AMS Board for Enterprise and Economic Development and the AMS Washington Forum. He is on the steering committee for the NOAA National Severe Weather Workshop and is working on the planning for the 2012 *Weather-Ready-Nation* conference at the National Weather Center. He is Board Secretary of the Emergency Interoperability Consortium. Most important, he would like to help the Natural Hazards Mitigation Association be recognized as a strong and collaborative partner by the Congress and state officials. Tom continues to develop strategic planning solutions for the business community and government partners. He works in Washington, DC and lives in Virginia.

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**Bob Glasgow** is a licensed Structural Engineer in California and eight other states. He received his Masters in Structural Engineering at California State University, Sacramento and his Bachelor of Science in Architectural Engineering at Cal Poly State University, San Luis Obispo. Bob is a Principal of Miyamoto International and currently oversees projects for the Haiti Office. Since he joined the firm in 1991, Bob has supervised or directly engineered over 1,800 projects. Bob was in Haiti in August 2010 where he helped to develop and manage the first Repair Assessment Program for Yellow Tagged Houses. Most recently, Bob was in Haiti helping to manage the repair of 5,000 Yellow Tagged Houses. Bob serves as Past President of the Structural Engineers Association of Central California and is an adjunct professor at California State University, Sacramento.

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**Rosemarie Geier Grant** is responsible for liaison activities within the building construction and research community at State Farm Insurance. She identifies construction trends and emerging technologies and helps to develop and conduct research to determine performance attributes of buildings. She assists in public education on risk recognition and loss mitigation. Ms. Grant is a Licensed Architect and has both a Bachelor of Science and a Master's degree in Architecture from the University of Illinois and holds the Chartered Property and Casualty Underwriter designation. Rose has served on many construction and research related boards and committees throughout the years including the initial drafting committee of the International Residential Code. She currently represents State Farm on the National Consortium of Housing Research Centers committee as well as the Executive Steering Committee of the New Madrid Earthquake Scenario Task Group. She is a member of American Institute of Architects (AIA), International Code Council (ICC), National Fire Protection Association (NFPA), Earthquake

Engineering Research Institute (EERI), ASTM, the Illinois Protective Officials Conference, and the National Institute of Building Sciences.

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**Laura Herbert** is the Lead Mitigation Planner for the Florida Division of Emergency Management's Bureau of Mitigation and has been with the Division for the past 4.5 years. Laura was directly responsible for assisting Florida's 31 southern counties with the update of their Local Mitigation Strategy (LMS) Plans as well as assisting several colleges and universities with the update and development of their hazard mitigation plans. She has become the Bureau's resident risk and vulnerability assessment expert and oversees the update of the State's Enhanced Hazard Mitigation Plan's risk and vulnerability assessment. She has also recently become intimately involved in other pieces of the latest plan update as well. She coordinates and oversees the work of the Bureau's many planning interns, who have helped the Bureau accomplish a number of special projects including their most recent guide, *Integrating Floodplain Plan Requirements into the LMS*.

Laura is a native to Michigan and her background is in geography and planning as well as aviation weather. Laura is a FEMA certified Hazus Practitioner, serves as plans section chief on the State Management Team, and has a master's certificate in Emergency Management from Florida State University.

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**William H. Hooke, Ph.D.**, directs the American Meteorological Society's Policy Program. He worked for NOAA from 1967-2000, in a series of research and management positions, including Deputy Chief Scientist and Acting Chief Scientist. He also served as Senior Scientist to Commerce Secretary William Daly. He was elected a member of the American Philosophical Society in 2006.

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**Jo Ann Howard** was appointed as the Federal Insurance Administrator (FIA) at the Federal Emergency Management Agency (FEMA) in March 1998. Serving as the Administrator of the flood program, she was responsible for managing the more than \$523 billion of flood insurance in force in the National Flood Insurance Program (NFIP).

After returning to Texas in March 2001, Mrs. Howard established H2O Partners, Inc. in Austin. H2O Partners is a firm that consults in flood insurance, disaster protection and recovery, homeland infrastructure security, floodplain issues, legislative consulting, state and federal administrative agency issues. The firm is built on Mrs. Howard's experience in the areas of insurance laws, flood insurance, floodplain management, the Federal Emergency Management Agency (FEMA), flood determinations/mapping issues, and state and federal government.

H2O Partners has worked in the all-hazards area for the states of Mississippi, Louisiana, and Texas. The firm was selected by the State of Texas for its Community Assistance Visits and to teach Floodplain 101. In September 2008, H2O began work as a FEMA contractor to deliver NFIP Training to agents, lenders and adjusters nationwide. Post-Hurricane Katrina, H2O provided Public Assistance support to the States of Mississippi and Louisiana. On a national level, H2O Partners is a subcontractor for IDIQ contracts with FEMA for RiskMap and Individual Assistance for national contractors.

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**John Ingargiola** is a Senior Engineer in the Building Sciences Branch of FEMA's Federal Insurance & Mitigation Administration in Washington, DC. The Branch is responsible for pre- and post-disaster building sciences, working with model building code and standards-producing organizations, development of technical guidance related to hazard mitigation, and coordination with various partners in the public and private sectors.

Mr. Ingargiola is the technical lead for conducting problem-focused studies and developing new and updated guidance for flood and high wind resistant design and construction. Mr. Ingargiola also conducts national level building code monitoring activities including the development of disaster-resistant provisions for code adoption and participation on various codes and standards committees. He has also managed the FEMA post-disaster Mitigation Assessment Team Building Performance studies which were conducted for Hurricanes Charley, Ivan, and Katrina. Many recommendations contained in these reports have been implemented thereby improving building performance and increasing disaster resistance in future events.

In 2008, John received the FEMA Administrator's Gold Medal Award, the highest award given by the Agency, for his work in advancing the role of building science in hazard mitigation and contributions benefitting FEMA's

Strategic Plan. In 2012, he received the Association of State Floodplain Managers John R. Sheaffer Award for Excellence in Floodproofing, for his career-long efforts to foster nonstructural flood mitigation.

Before coming to FEMA in 1999, John served as a Building Code Official in Florida. He holds a Bachelor of Engineering degree in Civil Engineering from the Cooper Union for Advancement of Science and Art.

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**Deborah Ingram** has broad experience in a variety of programs at the federal and local government levels and has a public service career that spans more than 30 years. For more than 10 years, Ms. Ingram has served in a variety of senior positions in FEMA's Headquarters. She is currently the Assistant Administrator for the Recovery Directorate. In this capacity, she has responsibility for leadership and oversight of mandated federal disaster assistance programs that support individuals and communities affected by disasters in their efforts to recover, including individual assistance, public assistance, community recovery, and mass care and voluntary agency coordination. These programs constitute the majority of the resources provided by the Federal Government (through FEMA) to directly address the short, medium, and long-term impacts of a disaster on individuals and communities.

Previously, Ms. Ingram held a variety of senior positions in FEMA's Federal Insurance and Mitigation Directorate, where she was responsible for programs that assist states, tribes, and local communities to reduce their risk to natural hazards and disasters. Among her many achievements, Ms. Ingram was instrumental in leading the unification of hazard mitigation grant programs, building strong relationships with FEMA's partners, and, during the summer of 2010, she provided key leadership in development and support of the Integrated Services Team during the aftermath of the Deepwater Horizon oil spill. Ms. Ingram was appointed to the Federal Senior Executive Service in August 2007.

Prior to coming to FEMA, Ms. Ingram spent eleven years at EPA, where she held a variety of senior and management positions in strategic planning, and administration and resources management. Ms. Ingram started her public service career working at the local government level in North Carolina, and later in Virginia, where she managed and implemented a variety of federally funded grant programs. Ms. Ingram holds an M.A. in Public Administration from the University of Virginia, an M.A. in Psychology from George Mason University, and a B.S. in Psychology from East Carolina University.

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**Alessandra Jerolleman** is the founder and Executive Director of the Natural Hazard Mitigation Association (NHMA). She is also a Program Specialist in the Gulf Coast with Save the Children USA, working on a resilience initiative around children's needs in emergencies. She currently serves as one of the Tri-Chairs for the National Hazard Mitigation Collaborative Alliance, sits on the board of the Greater New Orleans Disaster Recovery Partnership, and is a member of the Executive Committee of the American Society of Public Administration's Section on Emergency and Crisis Management. She is the co-author of a textbook, *Natural Hazard Mitigation*, which will be published by CRC Press in 2012. She is currently a doctoral candidate at the University of New Orleans. Ms. Jerolleman has acquired wide-ranging experience in the private, non-profit, and academic sectors.

Ms. Jerolleman's experience includes the following: hazard mitigation planning at the local, state, and campus level; community education and outreach regarding mitigation measures and preparedness; development of collaborative networks and information sharing avenues among practitioners; and delivery of training and education to various stakeholders. She is involved in various aspects of planning and policy and the national and local level, including participation in several workshops each year. Ms. Jerolleman speaks on many topics including: hazard mitigation and climate change; campus planning; threat, hazard and vulnerability assessments; hazard mitigation planning; protecting children in disasters; and public/private partnerships.

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**Mike Kline** is the manager of Vermont's river and floodplain programs in the Department of Environmental Conservation. He holds a Master's Degree in River Ecology from the University of Colorado, Boulder (1986). During his 24 years with the Department, Kline has worked to combine flood and erosion hazard mitigation with other aspects of watershed management. He has authored integrated river habitat and stream geomorphic assessment protocols and developed a river corridor planning program to help over 150 Vermont communities complete multi-objective projects to improve water quality, restore river ecosystems, and mitigate flood and erosion hazard.

Kline has worked in Vermont and nationally on the convergence of programs and policies around floodplain encroachment and river management. Stressing the importance of river science and data collection, Kline's Program has established the preeminence of an "avoidance approach" in Vermont by managing rivers and floodplains toward their natural equilibrium condition. Kline has worked tirelessly to align state and federal programs to move away from stream channelization and structural mitigation.

Kline has developed a nationally-recognized fluvial erosion hazard (FEH) area protection program based on the principles of stream equilibrium and natural floodplain function. Other states are adopting erosion hazard mapping and mitigation programs based on Vermont's approach, and Kline frequently speaks at regional and national workshops on the topic of river corridor and floodplain protection. Kline hopes to use his Tropical Storm Irene experience to help Vermont and other states better prepare mitigation and avoidance-based programs to engage early in the emergency phases of recovery, when so many critical and lasting decisions are made.

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**Tim Lovell** has been the Executive Director of Tulsa Partners, Inc. since 2004, overseeing a variety of initiatives related to mitigation, preparedness, response, recovery, and sustainability. He was recruited by the City of Tulsa Project Impact office in May 2000, after nearly 20 years of experience developing public-private partnerships with faith-based and community-based organizations in the areas of social service ministry, community revitalization, and historic preservation.

Building on Tulsa's existing mitigation activities, Mr. Lovell utilized partners to implement grants promoting tornado saferooms. He assisted in the creation of Tulsa Partners, Inc., a 501(c) (3) non-profit agency designed to support the building of a disaster resistant and sustainable community. He negotiated a 2003 "McReady" partnership with a local McDonald's cooperative that was later expanded statewide under the Oklahoma Department of Emergency Management and other partners from 2004 to 2011.

Mr. Lovell leads Tulsa Partners' current outreach activities under three core programs:

- The Disaster-Resistant Business Council, focused on business and nonprofit continuity of operations;
- The Language and Culture Bank, focused on the integration of diverse grassroots language and cultural groups into a community's emergency response; and
- The Millennium Center for Green and Safe Living, focused on low impact development and sustainable, disaster-resistant construction.

Mr. Lovell has a Master of Management degree in Nonprofit Administration. He serves on Oklahoma's State Citizen Corps Council and is a founding Board Member and current Secretary of the Natural Hazard Mitigation Association (NHMA). He chairs the NHMA Disaster Resilient Communities Committee.

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**Janiele Maffei** is a registered California structural engineer who has worked in the earthquake engineering industry for over 30 years. Her experience includes the design of new building structures, and the evaluation and seismic strengthening of existing structures. She has extensive experience with post-earthquake insurance evaluations of single family residences.

In her current position as Chief Mitigation Officer with the California Earthquake Authority, (CEA), Ms. Maffei is responsible for managing the CEA's activities that support mitigation against seismic risks of vulnerable residential structures in California. These activities include education and research efforts as well as the development of seismic strengthening incentive programs for California homeowners. The CEA is a privately funded, publicly managed risk pool that provides earthquake insurance coverage for residential property throughout California.

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**David Mallory** is a graduate of Colorado State University and has over 30 years of floodplain management experience in the Denver Metropolitan Area. He currently serves as the Senior Project Engineer in the Floodplain Management Program of the Urban Drainage and Flood Control District in Denver, Colorado.

David is active in several professional organizations and serves as the co-chair of the Floodplain Management Committee for NAFSMA and on the Board of Directors for NHMA. David maintains a high level of interest in

traditional floodplain management issues, such as floodplain mapping, as well as emerging sustainability topics related to floodplain preservation and protection of the natural and beneficial functions of stream and river systems.

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**Marilyn Martin** has provided H2O Partners, Inc. with expertise relating to strategic planning, budgeting, forecasting, staffing, and scheduling since January 2009. Ms. Martin possesses the business, financial, and management expertise to supervise staff, meet deadlines, implement program and project plans, and meet end-user expectations. In addition to Ms. Martin's firsthand National Flood Insurance Program (NFIP) Training experience, she brings extensive business and specialized expertise in identifying and implementing best practices related to training and adult learning. During her career, she has led and participated in many large-scale professional development and employee education initiatives. She has a solid track record for developing and managing projects and budgets and has demonstrated strengths in capturing, tracking, and analyzing metrics to ensure a high return on expectations, impact, and investment of training dollars. Ms. Martin is also a Specialist in workplace learning and workforce development, strategic Human Resource Development (HRD) planning, HRD research and development, competency prototyping and development, certification procedures, building supportive learning cultures, improving learning transfer, knowledge management, and use of social media technologies to facilitate learning.

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**Dennis S. Mileti** is professor emeritus at the University of Colorado, Boulder where he served as Director of the Natural Hazards Center from 1994-2003. He is the author of many publications and most of these are on the societal aspects of hazards and disasters. His book *Disasters by Design* summarized knowledge in all fields of science and engineering regarding natural hazards and disasters, and made recommendations for shifts in national policies and programs. Dennis has had the opportunity to work on a variety of exciting hazards-related projects over the years including providing oversight to the U.S. Army Corps about their investigation of why the levees failed during Hurricane Katrina and ensuing societal impacts for which he was awarded the U.S. Army's Civilian Medal of Honor; and he designed NIST's congressional study of evacuation of the World Trade Center towers on 9/11. He has chaired the Committee on Disasters in the National Research Council of the National Academies, and the Board of Visitors to FEMA's Emergency Management Institute. Dennis also served as a California Seismic Safety Commissioner, and has worked as a consultant in the private, public, and legal sectors in matters related to emergency management and public warning risk communication. Dennis will soon begin work with colleagues at different universities on a DHS-sponsored project to comprehensively test public warning messages for communication over mobile devices.

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**Dave Miller** is the Associate Administrator for the Federal Insurance and Mitigation Administration (FIMA), FEMA. Prior to moving to Washington, DC, he served as the Administrator for the Iowa Division of Homeland Security and Emergency Management from 2004-2011. During this time, he was the Governor's Authorized Representative for 11 Presidentially-declared major disasters; including the largest disaster in Iowa's history and the fifth largest disaster in the United States. He was also responsible for the execution of Hazard Mitigation grant funds in excess of \$350 million dollars. Under Dave's leadership, Iowa achieved national accreditation under the Emergency Management Accreditation Program and was one of only 12 States to have an approved Enhanced State Hazard Mitigation Plan allowing for increased mitigation funding under the Hazard Mitigation Grant Program. Dave served in several positions with the Iowa Division of Homeland Security and Emergency Management prior to serving as Administrator from 1989-2004, including Chief of Staff, Program Manager, and Executive Officer.

Dave has served as the President and Vice-President of the National Emergency Management Agency, as well as Chairs of the Legislative, Homeland Security, and Mitigation Committees. He is a graduate of the Naval Postgraduate School's Executive Education Program in Homeland Security and also served on the National Advisory Council. He has also served in the U.S. Navy as a radioman.

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**Deborah Mills** is Dewberry's Hazard Mitigation Client Manager focusing on the company's national Hazard Mitigation Practice. She represents ASFPM on a variety of efforts, including co-chairing the Mitigation Committee and supporting development of FEMA's National Mitigation Framework. She supports federal, state, and local hazard mitigation programs and planning nationwide such as HMTAP and TARC. She retired after 30 years with the Commonwealth of Virginia, most recently as the State Hazard Mitigation Officer. She was the Director of the Recovery and Mitigation Division of the Department of Emergency Management where she managed a staff of recovery project and planning specialists that manage Commonwealth disaster recovery operations. Her degree is in Forest Resource Management and Forest Engineering from West Virginia University. She served 10 years for the

Virginia Department of Forestry, 13 years in water pollution management at DCR, and the past six years in floodplain management and disaster recovery programs. She assisted the Mississippi Emergency Management Agency Mitigation Program for a month in Biloxi following Hurricane Katrina. Deborah is active in her downtown Richmond neighborhood, gardens, and builds disaster resistant Lego structures with her god children.

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**Jim Murphy**, PE, CFM, has 37 years of corporate and project management experience, including 33 years as a consultant to the USACE, Department of Homeland Security (DHS), Federal Emergency Management Agency (FEMA)/FIA. This effort includes providing dam/levee policy recommendations related to risk and mitigation since 1984.

Mr. Murphy is currently serving as Vice-Chairman for the DHS/OIP CIPAC subcommittee on dams and levees. He has worked with the USACE as a reviewer for the recommendations of the National Committee on Levee Safety. He is also on the American Society of Civil Engineers (ASCE) committee developing the “Infrastructure Report Card” which provides and updates the status of the nation’s infrastructure to Congress and the American people. He has just been appointed as a member of the Public Policy Committee on America’s Infrastructure.

Mr. Murphy has a B.S. in Civil Engineering from the University of Colorado-Boulder and an MBA in Management Science from George Mason University. He is also a registered professional engineer and a certified floodplain manager.

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**Ann Patton** is a Tulsa-based author and consultant with 45 years’ experience in program management, consulting, and writing about community affairs issues. A former *Tulsa World* reporter, Ms. Patton has worked across a broad spectrum of issues, from disaster management to social justice. National clients have included federal agencies and non-governmental organizations.

She is founding director of award-winning local programs in Tulsa, including Tulsa Project Impact, Tulsa Citizen Corps, and Tulsa Partners, Inc. She also volunteers on national and local boards and policy committees. Her focus is on helping create *whole communities* that are resilient, disaster resistant, sustainable, and committed to justice. She is vice president of the Natural Hazard Mitigation Association and the City of Tulsa’s hazard mitigation advisory board.

Ms. Patton just published her second book, entitled *Dan’s War on Poverty: A Grassroots Crusade for Social Justice*, which recounts the story of a crusading priest who fought for the poor in the 1960s. Her first book, *Fifty Years Remembered*, is an illustrated coffee-table history of water resources in this region. She is working on a third book, *Unmasked! The Rise and Fall of the 1920s Ku Klux Klan*. Ms. Patton has also authored hundreds of articles, technical reports, presentations, and publications.

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**Walter Peacock** is Professor of Urban Planning in Landscape Architecture and Urban Planning and serves as Director of the Hazard Reduction and Recovery Center at Texas A&M University. His teaching areas include: Planning Methods and Analysis; Planning Research Methods, Hazard Mitigation and Long-term Recovery; and Sociology of Hazards and Disasters. His research interests include urban planning, sustainable community development, natural hazard, hazard mitigation, and long-term recovery quantitative methods.

Dr. Peacock has written or co-authored several books and articles including *Hurricane Andrew: Ethnicity, Gender and the Sociology of Disaster* (Routledge, 1997); *Living Conditions, Disasters and Development: An Approach to Cross-Cultural Comparisons* (University of Georgia Press, 1993); “Hurricane Risk Perceptions among Florida’s Single Family Homeowners,” *Landscape and Urban Planning*, 2005; “Hurricane Mitigation Status and Factors Influencing Mitigation Status Among Florida’s Single-Family Homeowners,” *Natural Hazards Review*, 2003; “Modeling Hurricane Evacuation Decisions with Ethnographic Methods,” *International Journal of Mass Emergencies and Disasters*, 2001. Dr. Peacock received his B.A. from Columbus College and his M.A. and Ph.D. from the University of Georgia.

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**Lori Peek** is Associate Professor of Sociology and Co-Director of the Center for Disaster and Risk Analysis at Colorado State University. She also serves as the Associate Chair for the Social Science Research Council Task Force on Hurricane Katrina and Rebuilding the Gulf Coast. Her work focuses on socially vulnerable populations—including children, women, racial and ethnic minorities, and persons with disabilities—in disaster. She has conducted field research in New York City after 9/11, in Louisiana after Hurricane Katrina, and in Christchurch, New Zealand, after the 2011 earthquake. She is currently working on several funded research projects, including a longitudinal study of risk perception and evacuation behavior in hurricane-prone communities along the U.S. Gulf and Atlantic Coasts; an examination of innovative earthquake risk reduction activities in 11 cities in 7 different countries with high seismic risk; a state-wide survey of disaster preparedness among childcare providers in Colorado; a participatory project on children’s recovery after the Slave Lake fire in Canada and the Joplin tornado in the U.S.; and a five-year project on the health and social effects of the BP Oil Spill on children.

Lori is author of *Behind the Backlash: Muslim Americans after 9/11* (Temple University Press, 2011) and co-editor of *Displaced: Life in the Katrina Diaspora* (University of Texas Press, 2012). In 2012, *Behind the Backlash* was selected as the recipient of the Distinguished Book Award from the Midwest Sociological Society. In 2009, the American Sociological Association Section on Children and Youth honored Lori with its Early Career Award for Outstanding Scholarship. At Colorado State University, she has won the Greek Life Professor of the Year Award, the Alumni Association’s Best Teacher Award, the College of Liberal Arts Excellence in Teaching Award, and the Waterpik Excellence in Education Award. She received her Ph.D. in Sociology from the University of Colorado at Boulder in 2005.

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**Rhonda Price** is the Coastal Community Resilience Coordinator for the Gulf of Mexico Alliance and the Mississippi Department of Marine Resources. Rhonda has over 15 years of professional experience in grants and project management with various state and federal agencies. She completed her M.S. at the University of Southern Mississippi in archeology and holds a B.S. in anthropology from the University of Southern Mississippi.

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**Darrin Punchard** is an urban planner and floodplain manager who has spent his entire career working with local communities to become more resilient to disaster. Currently a Senior Project Manager with AECOM, he has more than 15 years of applied experience in hazard mitigation planning with specialized expertise in GIS-based risk assessment, benefit-cost analysis, and the development of actionable mitigation strategies to include structural and non-structural measures for risk reduction. Since 2001 he has served as a consultant to federal, state, regional, tribal, and local government agencies across the United States to assess and reduce their jurisdiction’s vulnerability to natural and technological hazards. He was responsible for preparing some of the nation’s first FEMA-approved local hazard mitigation plans and has assisted more than 500 communities gain compliance with the federal Stafford Act as amended by the Disaster Mitigation Act of 2000 (DMA 2000).

Darrin’s public service career includes serving as state hazard mitigation officer for North Carolina where he coordinated FEMA’s *Project Impact* program and launched the State’s Hazard Mitigation Planning Initiative, a statewide effort to promote the voluntary development of local hazard mitigation plans prior to DMA 2000. His career began in Florida where he worked as a local hazard mitigation planner for Alachua County, and later as a state mitigation planner for the Florida Division of Emergency Management where he helped launch the Local Mitigation Strategy initiative, the first statewide program requiring the preparation of community-based hazard mitigation plans. He earned a Master’s degree in Urban and Regional Planning from the University of Florida, and a Bachelor’s degree in Coastal Zone Management from the University of Rhode Island.

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**Christina Randall** is the Wildfire Mitigation Administrator for the City of Colorado Springs Fire Department in the Division of the Fire Marshal. The Colorado Springs Wildfire Mitigation program addresses wildfire risk through education, outreach, development review, fuels management, volunteer program management, land stewardship and grant administration. “Sharing the Responsibility” is more than a tagline, it is how program staff work with various groups including residents, homeowner associations, property management companies, insurance companies, non-profits, volunteer organizations, local, state and federal agencies. Mrs. Randall has a Bachelor of Science in Natural Resources Management from Colorado State University.

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**Stacy Franklin Robinson** is a Senior Planner for Atkins' Emergency Management Division. She currently serves as program area lead and subject matter expert for the Strategic Alliance for Risk Reduction Joint Venture (STARR JV) for all Risk MAP activities related to risk/vulnerability assessment and hazard mitigation planning support to FEMA Headquarters and for FEMA Regions I, V, VII, and X. She has 15 years of experience in vulnerability/risk assessment, loss estimation, mitigation planning, policy consultation, and project development/ implementation. She has been involved in the post-disaster response, recovery, and/or redevelopment process for over 30 federally declared disaster events.

She has served on FEMA's National Technical Review Panel reviewing benefit-cost analyses for Hazard Mitigation Assistance (HMA) project applications since 2003. She has also been a part of the preparation of DMA2000-compliant hazard mitigation plans, including conducting risk assessments for over 500 jurisdictions across the United States. She is a FEMA-certified HAZUS-MH Trained Professional, and was awarded the HAZUS User of the Year award in 2008.

She obtained her Bachelor of Arts in Public Policy Analysis from the University of North Carolina at Chapel Hill in 1996, as well as an Executive Certificate in Community Preparedness and Disaster Management in 2007. Ms. Robinson is a certified planner (AICP) as well as a certified floodplain manager (CFM).

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**Antonia Rosati** is a graduate student at the University of Colorado. Her Masters of Social Science thesis in Environment and Society is titled "Educational Mitigation for High Impact/Low Probability Hazards: A Case Study of Tsunamis in Los Angeles." She has presented many talks and posters to various audiences including at the Natural Hazards Workshop, Association of American Geographers, GIS Colorado, and the American Geophysical Union. In 2010, NOAA invited her to be a visiting scientist for a proof-of-concept GIS communication tool that was complete nearly in time for the Tohoku Tsunami of March 2011.

While her studies have focused on perceptions and communication of natural hazards risk, her professional career centers around the integration and interoperability of interdisciplinary data. She is the User Community Liaison for the North American Regional Climate Change Assessment Program (NARCCAP) at the National Center for Atmospheric Research (NCAR) – a position that enables her to communicate with researchers of various backgrounds and technical skills. Among these are climate modelers, ecologists, social scientists, statisticians, biologists, hydrologists, programmers, and data managers. It is here that Antonia developed a foundation for programming, shell scripting, and database management and manipulation.

This summer, Antonia is participating in a next-generation project through the NCAR SIParCS (Summer Internships in Parallel Computing) program. Her research blends cutting-edge Semantic Web, Linked Data, and microdata/metadata technologies with traditional data curation and facilitation methods in order to advance the discoverability and traceability of NCAR environmental datasets. She begins the Geography Ph.D. program at the University of Colorado at Boulder in the fall of 2012.

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**Jim Schwab** joined the American Planning Association (APA) in November 1985. Originally the assistant editor of *Planning*, APA's monthly magazine, he joined APA's research department in August 1990. He serves as the co-editor of a monthly publication, *Zoning Practice* and is the Manager of APA's Hazards Planning Research Center in the Chicago office.

Mr. Schwab is the project manager for "Planning for Post-Disaster Recovery: Next Generation," an ambitious three-year effort funded by the Federal Emergency Management Agency (FEMA) to completely rewrite *Planning for Post-Disaster Recovery and Redevelopment* (1998), which the APA produced under a cooperative agreement with FEMA. This new effort includes substantial multimedia web tools including the Recovery News blog. He is also leading a new project on drought mitigation under a subcontract with the University of Nebraska's National Drought Mitigation Center, and manages APA's partnership involvement in NOAA's Digital Coast program.

Mr. Schwab was also project manager and general editor for the FEMA-funded APA Planning Advisory Report, *Hazard Mitigation: Integrating Best Practices into Planning*, released in May 2010. Mr. Schwab was the sole author of two PAS Reports in the 1990s, *Industrial Performance Standards for a New Century* and *Planning and Zoning for Concentrated Animal Feeding Operations*. He served as the project manager for a FEMA-supported project in

which APA has developed training for planners on the planning provisions of the Disaster Mitigation Act of 2000, and for the Firewise Communities Post-Workshop Assessment. With Stuart Meck, he co-authored the 2005 PAS Report, *Planning for Wildfires*. He was also the principal investigator and primary author of *Tribal Transportation Programs*, produced for the Transportation Research Board. He was the project manager and general editor for the PAS Report, *Planning the Urban Forest: Ecology, Economy, and Community Development*, released in January 2009, and led the subsequent development of a training workshop based on that report, with a matching grant from the U.S. Forest Service. Finally, Mr. Schwab is the lead for APA's partnership with NOAA's Digital Coast.

Mr. Schwab has worked overseas several times on hazard-related planning: in the Dominican Republic overseeing site planning training in 2001, in Sri Lanka following the Indian Ocean tsunami, speaking at a disaster recovery conference in Taiwan in 2006, and as a Visiting Fellow of the Centre for Advanced Engineering in New Zealand in 2008.

Mr. Schwab is also the author of two books. The first, *Raising Less Corn and More Hell: Midwestern Farmers Speak Out*, was published in 1988 by the University of Illinois Press. It is an oral history of the farm crisis that affected the Midwest during the 1980s. The second, *Deeper Shades of Green: The Rise of Blue-Collar and Minority Environmentalism in America*, was released by Sierra Club Books in the fall of 1994. He is presently developing plans for a new book about the 1993 and 2008 Midwest floods.

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**Judy Sears** lives on the north coast of California near the Mendocino Triple Junction, where three tectonic plates grind below and past each other. Running north of the Triple Junction is the 700-mile long Cascadia subduction zone, believed to be capable of producing magnitude 9 earthquakes, which some geologists predict will occur within the next 50 years. A native Californian, Sears has always lived with threats of earthquakes, tsunamis, volcanic eruptions, torrential storms, and flooding—but it was her son's schooling in New Orleans and his ambulance work that opened her eyes and coalesced into a passion to get her community disaster prepared.

In the summer of 2012, Sears will complete her master's degree at Humboldt State University in Environment and Community. She researched the Community Emergency Response Team (CERT) training model to explore the efficacy of adapting the model to mitigate losses in rural coastal settings, which can be isolated from first responders and the rest of the state after disasters. From her research came a new question—what complement of personal and community action would include most people, empower them to make neighborhood connections, and build resilience to better prepare them for slow and rapid changes?

Sears has worked as the administrator of United States Servas, a national nonprofit organization; as the operations manager for World Shelters; as a public relations employee for a community college; and as a retailer, a tile setter, and a truck driver. All of these positions have led her to seek collaborations in developing community strategies to prepare for, respond to, and recover from disasters. Sears is now community liaison for the fledgling Regional Training Institute—Community Disaster Preparedness, which provides preparedness training for residents in the five Northern California counties.

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**Sheryl Siddiqui** is Spokesperson for the Islamic Council of Oklahoma; Board Member of the Oklahoma Center for Community and Justice (OCCJ) of the Oklahoma Chapter of the Council on American Islamic Relations (CAIR-OK); and on the Speakers Bureau for the Islamic Society of Tulsa. She chairs Tulsa Partners, Inc.'s Language and Culture Bank (LCB), an innovative grassroots network of multi-lingual and multi-cultural groups developed in the aftermath of the September 11, 2001 terrorist attacks. The LCB's goal is to educate and increase awareness on disaster preparedness in targeted communities that have special communication needs and to recruit and train members of those communities who have language and cultural skills to assist first responders during disasters. She represents the LCB at meetings of the City of Tulsa Hazard Mitigation Team, the Tulsa Human Response Coalition, and on other ad hoc emergency management committees.

Originally from Massachusetts, Sheryl graduated from Salem State College with a B.S. then worked for six years as an emergency room nurse in New Jersey and Wisconsin. Since coming to Oklahoma she has volunteered in education, First Amendment rights, domestic violence response, mental health, disaster mitigation, and interfaith understanding. She is married to neonatologist Dr. Ali Siddiqui and together they have three grown sons and three precious grandchildren.

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**Gavin Smith** is Executive Director of the Department of Homeland Security's Center of Excellence – Coastal Hazards Center. He is currently engaged in planning-related research within the center, focused on a national evaluation of local and state hazard mitigation plans, the study of state recovery plans, and the development of sea level rise adaptation strategies. Dr. Smith has published numerous book chapters, peer-reviewed journal articles, and technical reports addressing a range of topics including hazard mitigation, disaster recovery, and climate change adaptation.

Dr. Smith is also an Associate Research Professor in the Department of City and Regional Planning at the University of North Carolina-Chapel Hill. He recently completed the text, *Planning for Post-Disaster Recovery: A Review of the United States Disaster Assistance Framework* (Island Press, 2011) as well as several book chapters addressing the linkage between hazards analysis, planning, and sustainable development. Dr. Smith is currently serving as the co-editor of the text, *Climate Change Adaptation: Lessons from Hazards Management Planning* (Springer 2012).

Following Hurricane Katrina, Dr. Smith worked in the Mississippi Office of the Governor, serving as the Director of the Office of Recovery and Renewal. In this role, he and his staff focused on four primary tasks, including: identifying federal, corporate, non-profit, and foundation financial assistance; assessing the provision of education, outreach, and training to local governments and state agencies; providing counsel to the Governor, his staff, and state agency officials regarding disaster recovery policy issues; and implementing the Governor's Commission Report: *After Katrina: Building Back Better than Ever*. In this role, he testified before Congress twice, providing recommended policy changes to improve the delivery of post-disaster recovery and reconstruction activities. He also helped develop the concept and wrote policy guidance associated with the \$400 million Alternative Housing Pilot Program, an initiative intended to test the construction and deployment of improved emergency housing alternatives following Hurricane Katrina.

Dr. Smith also served as the Assistant Director for Hazard Mitigation in the State of North Carolina. During his tenure with the Division, the Mitigation Section administered mitigation and disaster recovery grant funds in excess of \$1.5 billion associated with 10 Presidential disaster declarations. Much of these funds were used to acquire and relocate or elevate over 5,000 and 500 homes, respectively. Following Hurricane Floyd, Dr. Smith served as an advisor to Governor Hunt on policies and programs associated with long-term recovery in North Carolina. This work led to the development of 22 state programs (totaling \$836 million) that addressed local needs not met by federal assistance, including the development of the State's nationally recognized floodplain mapping initiative.

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**Lisa Grow Sun** graduated from the University of Utah *summa cum laude* in chemistry and then attended Harvard Law School. In 1997, she was the first woman to graduate first in her class from Harvard Law School, the first woman to graduate *summa cum laude*, and the first student to graduate *summa cum laude* in 15 years. She was the Notes Chair of the *Harvard Law Review*, a Senior Editor of the *Harvard Journal of Law & Public Policy*, and an editor of the *Harvard Journal of Law and Technology*.

After clerking for Judge J. Michael Luttig of the U.S. Fourth Circuit Court of Appeals and then for Justice Anthony M. Kennedy, Professor Sun was a Lecturer in Law at Stanford Law School, where she taught Federal Jurisdiction and Administrative Law. Professor Sun then spent two years in Beijing, China, where she taught Civil Procedure to Chinese judges, lawyers, and administrative officials as a Visiting Professor at the Temple/Tsinghua University Masters in Law Program. While in China, Professor Sun also served as an advisor and consultant to the *Peking University Law Review* and the *Tsinghua University Law Review*, the first two student-run law reviews in China.

Professor Sun has also worked as a consultant for law firms on appellate briefs and Supreme Court petitions for certiorari, and has served as a *pro bono* lawyer on constitutional, administrative, bankruptcy, and family law matters.

Professor Sun teaches Disaster Law, Constitutional Law, Administrative Law, and Torts. Her primary research interest is in the emerging field of Disaster Law. She is coauthor of the leading disaster law textbook, *Disaster Law and Policy*, with Dan Farber, Jim Chen, and Rob Verchick.

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**Ed Thomas** is the President of the Natural Hazard Mitigation Association; and is the Chair of the Hazards Subcommittee of the Land Use Planning and Zoning Committee, of the American Bar Association. Ed also serves on the Advisory Committee of the Natural Hazards Center of the University of Colorado and is an active member of the American Planning Association. He is a former board Member of the Association of State Floodplain Managers and now serves as the Senior Liaison for that organization's No Adverse Impact Committee.

Ed retired from the Department of Homeland Security-Federal Emergency Management Agency after nearly 35 years of public service. During his time in government, he worked primarily in disaster mitigation, preparedness, and response. He also was extensively involved in community development during his nearly 10 years with the Department of Housing and Urban Development. Over his career, Ed has worked on about 200 disasters and emergencies, serving as the President's on scene representative, the Federal Coordinating Officer, dozens of times.

Ed is an attorney, is a frequent lecturer on emergency management issues, especially the constitutional and legal aspects of floodplain regulations. He has authored dozens of publications and articles on various disaster-related issues and regularly participates as a member of national task forces and other boards in developing national disaster-related and floodplain management policies.

Ed has received numerous national and international awards including the nation's highest award for floodplain management: The Goddard-White Award from the Association of State Floodplain Managers. In addition, he received the Gulf of Maine Visionary Award from the International Gulf of Maine Council, for his efforts in helping develop the NOAA StormSmart Coasts Program; and their first lifetime achievement award from the Georgia Association of Floodplain Management. He lives with his wife in the floodplain of beautiful Marina Bay in Quincy, Massachusetts.

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**Tim Trautman** is the Flood Mitigation Program Manager for Mecklenburg County Storm Water Services in Charlotte, North Carolina. He is also actively involved nationally on policy issues with the Association of State Floodplain Managers (ASFPM) and has served in various roles on policy committees over the years.

The Flood Mitigation Program is responsible for mitigation planning and regulatory review of floodplain development within Charlotte-Mecklenburg. This includes planning activities to reduce current flood losses, pursuing funding, implementing acquisitions of flood prone buildings, managing a local automated advanced flood notification system, enforcing floodplain ordinances, issuing floodplain development permits, issuing notices of violation, reviewing building elevation certificates, maintaining accurate floodplain maps, etc.

Mr. Trautman has a Bachelor of Science in Civil Engineering and a Master of Engineering degree from the State University of New York at Buffalo. His Masters work focused in Water Resources and Construction Management.

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**French Wetmore** is President of French & Associates, a floodplain management consulting firm. Prior to consulting, French was Chief of Local Floodplain Programs for the Illinois Division of Water Resources and State Flood Insurance Coordinator, 1976-1988. Before his state work, he was a city administrator. French's consulting projects have including assisting communities with their floodplain management ordinances and administration, preparing mitigation plans and programs, and helping design and administer the Community Rating System. He is the author of local or multijurisdictional hazard mitigation plans and many guides for local officials on mitigation planning, floodproofing, floodplain management, and related topics.

French has been a local planning commissioner and Chair of the Park Forest, Illinois, Plan Commission. He has served as Chair of the Association of State Floodplain Managers (1985-1987), President of the Certification Board of Regents (2001-2004), and on the Board of Directors for the Illinois Association for Floodplain and Stormwater Management (1989-2007). French has a B.A. in Government from Indiana University (1968) and an MPA from Syracuse University (1972).

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**Chris White** co-founded Anchor Point and oversees the operations of the Wildland Urban Interface division. His extensive background in project management complements his fire management skills to advise clients on wildland urban interface issues. Chris is also responsible for all related wildland urban interface education and training. Prior to co-founding Anchor Point, Chris was the Fire Management Specialist for Boulder County, Colorado. In this capacity, he worked daily as an interagency fire management coordinator with the U.S. Forest Service (USFS), Colorado State Forest Service, and 18 local fire districts. He also functioned as liaison to the County Land Use departments of planning and building. After spending his early career with the USFS and Colorado State Forest Service, Chris became the state's first, county level, Wildland Fire Coordinator for Summit County, Colorado. Chris has achieved many single resource qualifications through the National Wildfire Coordinating Group (NWCG), including Type 2 Burn Boss (RXB2) and Division Group Supervisor (DIVS). Chris was one of the first red carded Structure Protection Specialists (STPS) for the nation. Chris holds a B.S. in Environmental Resource Management and Park Management from Penn State University.

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**John Wiener, J.D., Ph.D.** is research faculty at the Program on Environment and Society at the Institute of Behavioral Science, University of Colorado-Boulder. He has worked in resource management, climate information use, and natural hazards until smearing them together in a series of projects focused on agricultural water supply in Colorado and the Western U.S. The loss of agricultural productive capacity in the U.S. includes land conversion in urbanizing and peri-urban areas, and the linked problems of climate variation, economic change, and poor or lack of land use planning relate to hazard mitigation in many ways, starting with land use. Much of the argument is presented in assorted PowerPoint™ presentations and other materials posted at [www.colorado.edu/ibs/eb/wiener/](http://www.colorado.edu/ibs/eb/wiener/). John's best moment in Hazards was moderating the panel organized for the workshop on social creation of vulnerability. John is available for many kinds of interaction, consultation, and employment.

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**Roy Wright** leads the Risk Analysis Division's programs that manage the initial pieces of the mitigation lifecycle—flood hazard identification, assessment tools, risk communication, and multi-hazard mitigation planning. Mitigating the impact of future disasters stands as a cornerstone of the Federal Emergency Management Agency's (FEMA) mission. The largest of these responsibilities includes the National Flood Insurance Program's (NFIP) flood hazard mapping program. Under Roy's leadership, the \$1 billion Flood Map Modernization effort delivered digital Flood Insurance Rate Maps to 92% of our Nation's population. The successor program, Risk MAP (Mapping, Assessment, and Planning), expands on this mission: delivering quality data that increases public awareness and leads to action that reduces risk to life and property. Roy serves as the Program Executive for these Risk Analysis programs.

Working across Federal agencies along with the states, localities, critical infrastructure, and the private sector, Mr. Wright leads the development of the National Mitigation Framework required by President Obama's policy directive on National Preparedness (PPD-8). The directive outlines the Administration's strategy to strengthen the security and resilience of the United States. The Mitigation Framework complements the other four frameworks and outlines the capabilities necessary to reduce loss of life and property by lessening the impact of disasters.

Mr. Wright joined FEMA as the Deputy Director of Risk Analysis in November 2007. Prior to joining FEMA, he served as a project executive with Coray Gurnitz Consulting. For five or those years he led the firm's FEMA project teams. In that capacity, he advised FEMA through the ramp-up of the Map Modernization program; guided the integrated team that redesigned the FEMA's Mitigation grant programs, creating the Unified Hazard Mitigation Assistance strategy; and facilitated the Mitigation Directorate's transformation—the creation of the risk analysis, risk reduction, and risk insurance business lines.

In the late 90s, Mr. Wright served as a policy advisor to the Secretary of Interior, coordinating policy formation and implementation related to the Department's land protection initiatives. In this role, Roy developed broad consensus with State and local officials, Native American tribes, ranchers, environmentalists, and oil/gas industry officials.

Mr. Wright holds a Masters of Public Administration from The George Washington University and a Bachelor of Arts in political science from Azusa Pacific University.

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## Award Winner Bios

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### *NHMA 2012 Safe Development Leadership Award – The Denver Urban Drainage and Flood Control District*

Since 1974 the **Denver Urban Drainage and Flood Control District** has followed a successful approach consisting of a comprehensive floodplain management program designed to prevent new problems from being created by new development in floodplains; “fixing” existing problems in floodplains; and working and negotiating with local governments, developers, and civic groups to develop win-win solutions which recognize the developer’s desire for creating a profitable and attractive project and the community’s desire for tax revenue, jobs, and community amenities.

As part of their floodplain management efforts the District prepared a brochure to market the floodplain as an asset to developers and communities. It is distributed early in the planning process, for instance, at a pre-application meeting. This award winning brochure includes a mini CD that contains five business cases that demonstrate to developers and local governments the financial value of preserving floodplains as assets to the development and the community at large. It also contains many other examples of both preservation and restoration projects.

The District’s Floodplain Management Program, working with its local government partners, has been successful in keeping new development out of the especially hazardous portion of the floodplain or requiring adequate mitigation of the flood hazard. The District’s Design, Construction and Maintenance Program, working with local government partners, has constructed drainage and flood control facilities with a present worth of \$650 million. *As a result, although since 1969 the population of the District has tripled, it is estimated that there are 5,000 fewer structures in mapped 100-year floodplains.* This is due to their approach and innovations.

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### *NHMA 2012 News Media Awards:*

#### *Print Media Award – David Hammer, Reporter, The New Orleans Times-Picayune*

**David Hammer** is an award-winning reporter for The Times-Picayune in New Orleans. Since 2007, he’s led the paper’s coverage of multi-billion-dollar Hurricane Katrina recovery programs, especially the Road Home rebuilding effort and associated Hazard Mitigation aid. He exposed inequities in federal and state regulations and forced major policy changes in Baton Rouge and Washington. When the recovery money arrived in New Orleans, he unearthed the first case of Road Home fraud and shined light on local government bribery schemes, winning major regional awards for stories in 2007 and 2009. He won the Associated Press Managing Editors’ award for investigative reporting for his 2011 work uncovering graft and fraud in Louisiana’s home-elevation grant program.

Hammer also led the paper’s investigation of what went wrong on the Deepwater Horizon oil rig that exploded in the Gulf of Mexico in 2010 and broke several stories about key engineering decisions that contributed to the BP well blowout. That work won Hammer first prize for best beat reporting of 2010 from the Society of Environmental Journalists. And he was part of a team of journalists that won the National Journalism Awards’ 2010 Edward J. Meeman Prize for environmental reporting and The Associated Press Managing Editors’ top regional news writing award.

Hammer is a seventh-generation New Orleanian and a 1997 graduate of Harvard University. He worked almost six years for newspapers in New England and four years with The Associated Press in Little Rock, Arkansas and in Washington, D.C. before returning to New Orleans.

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#### *Radio Award – Jeanne Meserve, Independent Journalist, WTOP Radio, Washington, DC*

**Jeanne Meserve** has defined homeland security reporting. She covered the beat for CNN from the September 11th attacks through their tenth anniversary, as long as any reporter in the country. Her portfolio has included intelligence, law enforcement, cyber, aviation, and border and port security. She has flown with a combat air patrol,

reported from atop a crane in the port of Los Angeles, and watched undercover “red teams” test airport security checkpoints.

Meserve is currently a Senior Fellow at the George Washington University Homeland Security Policy Institute, and a member of the Aspen Institute Homeland Security Advisory Group. She is also President of Shore Road Multimedia LLC, which specializes in homeland security communications issues.

On the ground in New Orleans during Hurricane Katrina, Meserve was the first to report on the devastating flooding inundating portions of the city. CNN’s coverage of the storm and its aftermath won a Peabody Award. Judges for the 2005 David Bloom Award said her coverage revealed “extraordinary composure and compassion as well as her unwavering respect for the facts.” Her experience in Katrina has given Meserve firsthand knowledge of crisis communications, as has her coverage of other natural disasters and major crime stories, including the Washington snipers, the Elizabeth Smart kidnapping, and the Virginia Tech shootings.

Her understanding of the international terror picture is augmented by her years as a State Department correspondent for ABC News, where she reported from China, the Middle East, and Europe. She anchored CNN’s award winning coverage of Yitzhak Rabin’s assassination and the death of Princess Diana, and won an Edward R. Murrow Award for her reporting from Cuba on the international tug of war over Elian Gonzales.

An accomplished television anchor, Meserve has moderated interviews and policy debates for the Aspen Institute, the Council on Foreign Relations, the Bipartisan Policy Center, the Intelligence and National Security Alliance, and the Halifax International Security Forum. She often speaks to academic and policy groups. Meserve received a B.A. in English Literature from Middlebury College, and is a recipient of the college’s Alumni Achievement Award.

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#### ***Local TV Award – Travis Meyer, Chief Meteorologist, KOTV, Tulsa, Oklahoma***

**Travis Meyer** joined the News On 6 Warn Team on February 1, 2005, bringing more than 30 years of meteorology experience to the team. He is one of Northeast Oklahoma’s most trusted and most respected meteorologists. Meyer understands the consequences that wind, drought, rain, heat, and hail bring to rural families. He’s lived it. “Travis! Get down from there,” was something he often heard out on the Nebraska plains where he was always trying to get a closer look at the sky. As young as age six, Meyer could be found climbing on the roof of a barn or windmill to get a better view of an incoming storm. Armed with his little Instamatic camera, Meyer captured pictures of what would become his passion.

Meyer graduated from the University of Kansas with a bachelor’s degree in meteorology and geography. He has been honored with numerous service awards and earned the Oklahoma Association of Broadcasting award for best weathercast presentation. Meyer is a member of the National Weather Association and holds the American Meteorological Society’s Seal of Approval.

Weather even impacts Meyer at home as he and his wife, Susan, rely on both rain and sun to run their Hereford cattle and Quarter horse ranch near Tulsa. They have four children, two boys and two girls. Meyer enjoys speaking at schools and to civic groups, attending church, gardening, sports, and anything to do with the ranch.

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#### ***National TV Award – Jim Cantore and Eric Fisher, Meteorologists, The Weather Channel***

**Jim Cantore** is a meteorologist for the Weather Channel. Originally from White River Junction, Vermont, Jim has a B.S. in Meteorology from Lyndon State College. Jim has received awards and accreditations from the National Weather Association, the American Meteorological Society, and the American Red Cross. He likes engaging in outdoor activities, listening to music, and spending time with his two daughters.

**Eric Fisher** is a meteorologist for the Weather Channel. He graduated Magna Cum Laude with his B.S. in Atmospheric Science from the State University of New York-Albany. Eric enjoys cooking at home and trying out new restaurants, traveling, and spending time outdoors and playing sports.

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## NHMA Leadership

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Darrin Punchard, AECOM

Diane Smith, Natural Hazards Center, University of Colorado

Ed Thomas, NHMA

Terri Turner, City of Augusta Planning and Development, Augusta, Georgia

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