

32nd Annual Natural Hazards Research and Applications Workshop

July 8-11, 2007
Millennium Hotel
Boulder, Colorado

Workshop Program

Sunday, July 8

8:45 am - 4 pm

Millennium Lobby

Field Trip: Rocky Mountain Floods

Participants meet in the lobby of the Millennium Hotel at 8:45 a.m. Buses leave at 9 a.m. sharp. You must prepurchase your ticket with your registration.

Facilitator:

Matthew Kelsch, University Corporation for Atmospheric Research/Cooperative Program for Operational Meteorology, Education, and Training

10 am - 12 pm

Millennium Back Patio

Field Trip: Walking in Gilbert's Footsteps - A Walk along Boulder Creek

Participants meet on the back patio of the Millennium Hotel. The tour leaves at 10 a.m. sharp and will proceed at a leisurely pace. The tour is free but please sign up with your registration form.

Facilitator:

Alan Taylor, Alan Taylor Consulting, LLC

1 - 3 pm

Room 331

Health Care Research and Disasters Roundtable

Anyone interested in disasters and health care issues is welcome to join this informal meeting.

Convener:

Kim Shoaf, UCLA Center for Public Health and Disasters

2 - 5 pm

Millennium Lobby

Natural Hazards Center Library Open House

All participants are invited to visit the Natural Hazards Center's library collection. With over 31,000 items, the library is one of the largest collections of literature and research devoted to social science aspects of hazards and disasters in the world. A shuttle will run a loop between the Millennium Hotel and the library, located on the University of Colorado campus, every half hour.

Convener:

Wanda Headley, Natural Hazards Center

Sunday, July 8

2 - 5 pm

Canyon Room

Graduate Student Professional Development Seminar

2 - 3 pm NSF Grant Writing and an Introduction to Other Funding Opportunities: This session provides tips and tricks on how to write a successful NSF grant. The information provided will not be discipline-specific, but rather a general guidance on techniques to implement when writing an NSF grant. Additionally, presenters will discuss other funding opportunities available to graduate students interested in disaster research.

Presenter:

Dennis Wenger, National Science Foundation

OR

Sugarloaf Room

2 - 3 pm CV/Resume Writing: For graduate students on the verge of graduation, a session providing tips on how to write a successful CV/Resume is available. Presenters will supply graduate students with examples of successful CV/Resumes and guidance on techniques to employ on a CV/Resume when job hunting.

Presenter:

Garry Briese, ICF International

Canyon Room

3 - 4 pm Increasing your Productivity: This session presents tips on how to increase productivity in both your professional and personal lives. Information from the session is based on the national bestselling book *Getting Things Done* by David Allen. Presenters will provide quick and easy techniques on how to organize your life and become more productive in the process.

Presenters:

Leslie Irvine, University of Colorado, Boulder

Lori Peek, Colorado State University

Canyon Room

4 - 5 pm Graduate Student Networking Hour: This session allows graduate students working in the same disciplines to discuss their areas of interest, progress on their graduate work, and any challenges that they've encountered.

3 - 5 pm

Flagstaff Room

The American Meteorological Society Annual Partnership Topic: Building America's Resilience to Hurricane Disasters

The purpose of this exploratory meeting is to examine the potential for interaction between the meteorological and natural hazards communities with respect to the American Meteorological Society Annual Partnership Topic: Building America's Resilience to Hurricane Disasters. Participants will develop a short document that summarizes the results of the meeting on potential interactions and provides input to the Topic Committee for the Hurricane Disasters Annual Partnership Topic.

Conveners:

James Harrison, NOAA/Office of the Federal Coordinator for Meteorology

Jeff Lazo, National Center for Atmospheric Research

Sunday, July 8

4 - 7 pm
Sunshine Room

Registration

5 - 7 pm
Millennium/Century Rooms

Poster Session and Ice-Breaker Cash Bar

6 pm
Fire Pit

First-Timers Orientation

Is this your first time at the Boulder workshop? If so, please join this short orientation to learn how the workshop is organized and find someone to have dinner with.

Convener:
Christine Bevc, Natural Hazards Center

7:15 pm
Millennium Lobby

Graduate Student Dinner

Students are invited to have dinner at a popular downtown restaurant. Meet in the lobby of the Millennium Hotel at 7:15 p.m. You must reserve your spot in advance.

Convener:
Erica Kuligowski, Natural Hazards Center

Monday, July 9

7 am - 5 pm
Sunshine Room

Registration Continues

8 - 9:15 am
Grand Ballroom

Welcome and Self-Introductions

9:15 - 9:30 am
Grand Ballroom

Presentation of the Mary Fran Myers Award and Scholarships

Presenters:

Maureen Fordham, University of Northumbria
Lori Peek, Colorado State University

9:30 - 10 am
Gardens

Break

10 am - 12 pm
Grand Ballroom

Plenary #1: Gilbert F. White - A Global Legacy

In October 2006, Center founder, renowned geographer, and friend Gilbert F. White passed away peacefully in his Boulder, Colorado, home. Gilbert was influential in the creation of the global hazards community, and his seminal work on protecting lives and property from floods by adjusting human behavior to the environment is the backbone of modern floodplain management. He was, above all, a humanitarian in the true sense of the word—his Quaker beliefs were reflected in every aspect of his work and, more importantly, in his relationship with each person who came into his life. This session will examine Gilbert's legacy and, as he would have wanted it, explore how the issues about which he was so deeply concerned can and will be addressed in the future by the global scientific and policy communities.

Short Film - Reflections on the Life of Gilbert White

By: Marshall Frech, Independent Filmmaker

Moderator:

David Butler, Independent Consultant

Discussants:

William Anderson, National Research Council

Ian Burton, University of Toronto

Dick Jessor, University of Colorado, Boulder/Institute of Behavioral Science

Jane Menken, University of Colorado, Boulder/Institute of Behavioral Science

Susan Tubbesing, Earthquake Engineering Research Institute

Recorder:

Deborah Thomas, University of Colorado at Denver and Health Sciences Center

12 - 1:30 pm
Pavillion

Lunch

If you pre-purchased your lunch, your name badge is marked with a **purple** stamp. Please have your badge with you when you go through the line.

Monday, July 9

Concurrent Sessions:

1:30 - 3 pm
Millennium Room

National Flood Insurance Program Evaluation

For more than 35 years, the National Flood Insurance Program (NFIP) has served as the principal federal government initiative to reduce flood damage and losses and to protect the natural resources of floodplains. In 2002, the first comprehensive evaluation of the NFIP was conducted. It included 13 individual studies covering the range of NFIP activities, from insurance rating to construction standards to resource preservation. The final evaluation was completed in late 2006; discussants will address its major findings while also debating its recommendations and the prospects for enhancing the program.

Moderator:

Douglas Plasencia, Michael Baker Jr., Inc.

Discussants:

David Conrad, National Wildlife Federation
Larry Larson, Association of State Floodplain Managers
David Maurstad, DHS/FEMA Mitigation Division
Rutherford Platt, University of Massachusetts, Amherst

Recorder:

Steve Olsen, Dewberry and Associates

1:30 - 3 pm
Trailridge Room

Severe Weather and Public Health Facilities

This session will address the sensitivities of public health facilities and operations to severe weather, such as hurricanes, thunderstorms, and blizzards. It will also offer suggestions on how public health officials can use a variety of types of weather forecasts to stage preparations. Panelists will encourage discussions on potential future forecast products that will assist the health sector in preparing for severe events.

Moderator:

Margaret Fowke, NOAA/National Weather Service Strategic Planning Office

Discussants:

John Gaynor, NOAA/Office of Weather and Air Quality
David Wallace, University of South Alabama/Center for Strategic Health Innovation

Recorder:

Tamara Wall, University of Montana/Periship Fellow

1:30 - 3 pm
Flagstaff Room

Managing Volunteers and Volunteer Organizations in the Aftermath of Disaster

The value of volunteers after a disaster is undeniable. But how can these volunteers, both affiliated and unaffiliated, be better managed to improve response effectiveness and efficiency? Issues that will be discussed in this session include how to manage spontaneous volunteers, the well-intentioned but unskilled public, and the self-deployed with critical skills; the emergence of new organizations and how they can be better incorporated into response and recovery efforts; and how volunteer organizations in general can better work with government agencies to ensure that the needs of all victims are being sufficiently met.

Moderator:

Jeannette Sutton, Natural Hazards Center

Discussants:

James Kendra, University of North Texas
Sharron Leao, California Volunteers
Claire Reiss, Public Entity Risk Institute
Randy Rowel, American Red Cross

Recorder:

Mollie Franke, University of Louisville

Monday, July 9

1:30 - 3 pm
Sugarloaf Room

Pre-Disaster Planning for Post-Disaster Recovery: Is it Always Planning for the Last Disaster?

While there are plenty of examples of successful planning for disaster recovery and reconstruction, these efforts have often taken place in the immediate aftermath of a destructive event. Few communities have seriously engaged in such planning and decision making before disaster strikes. This session will highlight the methods used in preparing community-based plans (as opposed to government-mandated reports) that will guide short-term and long-term recovery after anticipated, yet unrealized, disaster events.

Moderator:

Darrin Punchard, PBS & J

Discussants:

Allison Boyd, Continental Shelf Associates International, Inc.

Nathan Slaughter, PBS & J

Lori Vun Kannon, Broward County Emergency Management

Recorder:

Paula Schulz, Natural Hazards Mitigation

1:30 - 3 pm
Canyon Room

The Role of the Private Sector in Disasters

The private sector plays a vitally important role in disaster mitigation and management. As seen in recent disasters, private industries respond with physical resources and maintain and repair critical infrastructure. In public-private partnerships, industry joins local communities to plan for disaster recovery and to market preparedness messages to the most vulnerable. When affected by disaster, local small businesses regularly join the list of disaster victims, closing their doors with no ability to recover. In addition, global companies are affected by supply chain disruption and face huge economic losses and an inability to supply much-needed resources throughout the world. In this session presenters will discuss the ways that private industries deal with complex disaster situations, ranging from internal contingency plans to worldwide continuity of operations. They will also address current partnerships and incentives with local, state, and national government.

Moderator:

Kevin Barber, Institute for Business & Home Safety

Discussants:

Sudha Arlikatti, University of North Texas

William Hooke, American Meteorological Society

Sergio Prete, FM Global

Brent Woodworth, IBM Crisis Response Team

Recorder:

Robert Olson, Robert Olson & Associates, Inc.

3 - 3:30 pm
Gardens

Break

Monday, July 9

New Research and Project Sessions:

3:30 - 4:30 pm
Flagstaff Room

Disaster Management in China

China is exposed to a broad range of hazard agents because of its complex climate, varied geological conditions, intense land use demands, and high population density. Both the intensity and frequency of natural disasters in China are high, taking a heavy toll and causing huge economic losses. Great efforts have been made by researchers and decision makers to mitigate natural hazards in China; however, this is the first opportunity for the researchers and officials from China to present their research findings at the annual workshop. This session aims to share Chinese experience in dealing with natural disasters management by providing an overview of recent disasters in China and by exploring its response, mitigation, preparedness, and recovery systems.

Moderator:

Meril Dobrin Fujiki, East-West Center

Presenters:

Jing Li, National Disaster Reduction Center of China
Zhenyao Wang, Ministry of Civil Affairs
Jianjun Wu, Beijing Normal University

3:30 - 4:30 pm
Sugarloaf Room

Open Risk Analysis

To manage risk from natural and technological disasters (earthquakes, hurricanes, industrial accidents, etc.) and to understand the potential impacts of new disaster science or policy, access to analytical and computer risk models is required. Risk models are constantly in flux as science, engineering, and disaster social science develop, and many researchers and practitioners lack risk-integration tools and methods needed for an overall understanding of risk – they must either re-develop existing integrative software or abandon potentially fruitful study. Current end-to-end risk models have been developed in a hierarchical paradigm and cannot nimbly respond to emerging knowledge and data. In response, a new paradigm of open risk (OR) analysis is emerging, fostered by an international Alliance for Global Open Risk Analysis (AGORA), which held an international workshop in February at California Institute of Technology. This session describes the AGORA Framework and current OR initiatives and includes an open panel discussion on OR needs and opportunities.

Moderator:

Charles Scawthorn, Kyoto University

Presenters:

Cathleen Carlisle, DHS/FEMA
Ned Field, U.S. Geological Survey
Keith Porter, California Institute of Technology

Recorder:

Louise Comfort, University of Pittsburgh

Monday, July 9

3:30 - 4:30 pm
Room 331

Quick Response Research

Researchers will share the research from their recent field deployments.

Moderator:

Duke Austin, Natural Hazards Center

Presenters:

Laura Banks, University of New Mexico

Effective Healthcare System Response to Consecutive Florida Hurricanes

Sheldon Drobot, University of Colorado, Boulder

Evaluation of Winter Storm Warnings: A Case Study of the Colorado Front Range December 20-21, 2006, Winter Storm

3:30 - 4:30 pm
Room 431

Disaster Ethnographies: Building Trust, Handling Problems

Fieldwork, an important part of disaster research, is often overlooked as a discussion topic in conferences. However, conducting research in disaster-affected areas or among vulnerable communities presents numerous challenges that require careful planning and reflection. Such challenges include ensuring research is conducted ethically, building trust among vulnerable populations, and discouraging potential interview biases. Trying to find normality for someone whose life has been disrupted poses additional challenges and strain on the researcher. This session provides an opportunity to review underlying assumptions and biases that influence the way data are collected and analyzed. This session will encourage researchers to talk candidly about their experiences and share ideas with new researchers preparing to conduct fieldwork.

Moderator:

James Elliott, University of Oregon

Presenters:

Emmanuel David, University of Colorado, Boulder

Kristina Peterson, University of New Orleans

Recorder:

Anna Versluis, Clark University/Periship Fellow

3:30 - 4:30 pm
Canyon Room

Levee Issues and Challenges

It has long been recognized that flood protection provided by levees is a double-edged sword. On one hand, levee systems have provided flood protection. On the other hand, given enough time levees either will be overtopped or will fail—leading to severe flood impacts on an unsuspecting population. An additional concern is that levees are often placed so that they encroach substantially on river systems. This creates adverse impacts both on flood frequency and severity as well as on the natural functions of the river system. Because of the nature of levee failure flooding, the Association of State Floodplain Managers believes that levees are not a wise community choice and should never be used to protect undeveloped land so development can occur in the flood risk area behind the levee. It is apparent that over time the nation has gradually and imprudently modified its various policies that affect levees and levee failure.

Moderator:

Edward Thomas, Michael Baker Jr., Inc.

Presenter:

James Murphy, URS Corporation

George Riedel, Association of State Floodplain Managers

Recorder:

Jack Rozdilsky, University of North Texas

Monday, July 9

3:30 - 4:30 pm
Trailridge Room

Research in Hazards by Young Professionals I

Moderator:

Joe Trainor, University of Delaware/Disaster Research Center

Presenters:

Melissa Berry, University of South Carolina

Flooding and Environmental Justice: A Case Study of South Carolina

Eric Tate, University of South Carolina

Web-based Hazards Vulnerability Assessment

Jennifer Webb, University of South Carolina

Exploring the Vulnerability and Responses of Children to Terrorism

Recorder:

Ginni Melton, University of South Carolina

4:30 - 4:35 pm

Session Transition

New Research and Project Sessions (continued):

4:35 - 5:35 pm
Sugarloaf Room

Creating Emergency Management Networks at the Local Level

When a disaster strikes, where do local governments turn to help fill their needs for emergency management resources, whether human or equipment? This session will provide options and tools for creating regional emergency response and recovery networks that can be planned in advance of an emergency and deployed once disaster strikes. The session will also describe the International City/County Management Association and the Public Entity Risk Institute's progress with the "National Emergency Management Network," a disaster-assistance system that relies on a network of partnerships among cities and counties.

Moderator:

Patricia Gavelda, Colorado Division of Emergency Management

Presenters:

Mosi Kitwana, International City/County Management Association

Shawn Smith, Emergency Visions

Recorder:

Jennifer Webb, University of South Carolina

4:35 - 5:35 pm
Flagstaff Room

Wall of Wind

Developed by the International Hurricane Research Center, the Wall of Wind research capability will change standards for building practices and retrofitting technology of existing structures. This first-of-its-kind, full-scale, destructive testing of houses and low-rise commercial buildings, subjected to category 1-5 hurricane-force wind and rain, will revolutionize the understanding of how structural failure occurs, which is not presently possible from scale-model wind tunnel testing. This innovative testing will also change perceptions of building safety, in much the same way that the automobile industry tackled the crash worthiness issue and the earthquake community used shake tables to test and destroy full-size houses.

Moderator:

Sue Ellen Smith, Federal Alliance for Safe Homes

Presenters:

Stephen Leatherman, Florida International University

Jason Lin, Weather Predict Consulting, Inc.

Recorder:

Christopher Burton, University of South Carolina

Monday, July 9

4:35 - 5:35 pm
Room 331

The International Council for Science's Hazards Research Program

The International Council for Science (ICS) is mounting a ten-year research program on hazards. ICS comprises 29 international science organizations and involves over 100 nations, mostly through academies of science or similar bodies. The ICS has established a "Planning Group for Natural and Human-Induced Environmental Hazards and Disasters," with a research focus on earthquake mechanisms and hurricane formation, that addresses a paramount question: Why, in the face of advances in knowledge about both the natural and social causes of disasters, do losses continue to mount?

Moderator:

Andrea Dargush, Innovative Emergency Management, Inc.

Presenter:

Ian Burton, University of Toronto
William Hooke, American Meteorological Society

Recorder:

Melissa Berry, University of South Carolina

4:35 - 5:35 pm
Room 431

Planning for the Rebuilding of New Orleans

Recovery is a microcosm of all the challenges of urban planning—devising development strategies to improve lives, acting in the absence of sufficient information, navigating local politics, engaging the public, and identifying funding sources. Prior research on catastrophic urban disasters identified at least two challenges in recovery planning: 1) how to manage the competing needs for speed and for deliberation, and 2) how to manage a large process in a short timeframe, where the stakes are high, tolerance is low, and needs are great. This session will report on the plans and institutions that have evolved to date to guide the rebuilding of New Orleans in its recovery planning. It will also look at the differences of scale in urban disasters and what plan elements and strategic management approaches are needed to organize and finance the rebuilding of a destroyed American city. The results of this research will be published in a book and in journal articles that will describe the unique experience of rebuilding an entire American city and the important lessons for other cities following future disasters.

Moderator:

Sarah Bowen, Michael J. Baker, Inc.

Presenter:

Laurie Johnson, Independent Consultant
Robert Olshansky, University of Illinois

Recorder:

Christina Finch, University of South Carolina

Monday, July 9

4:35 - 5:35 pm
Canyon Room

Vulnerability and Resilience: All Politics is Local

In examining vulnerability and resilience, many efforts are made to quantify the concepts or to systemize the qualitative data. The underlying and implicit assumption is that some form of universal or near-universal truth exists with respect to defining, analyzing, and interpreting vulnerability and resilience. Problems in disaster risk reduction research and application can be linked to the failure to recognize the theoretical and empirical evidence demonstrating the subjective nature of vulnerability and resilience.

Framed by the theory and practice of island governance, this session examines the local and political influences on people's understanding of and responses to vulnerability and resilience. Islands are useful case studies due to their smaller, more isolated, and more marginalized features, as will be exemplified by evidence from field work on the South Pacific island state of Tuvalu. In particular, political and subjective perceptions and applications of vulnerability and resilience will be discussed, yielding questions related to operational ethics, island sovereignty, and local traditional knowledge.

Moderator:

William Lovekamp, Eastern Illinois University

Presenters:

Ilan Kelman, National Center for Atmospheric Research
Heather Lazrus, University of Washington

Recorder:

Kate Worboys, University of Maryland/START

4:35 - 5:35 pm
Trailridge Room

Research in Hazards by Young Professionals II

Moderator:

Tom Cova, University of Utah

Presenters:

Gina Eosco, American Meteorological Society/Cornell University
A Study of Visual Communication: Cyclones, Cones, and Confusion

Evan Hammel, University of Colorado, Boulder
Multi-Attribute Aspects for Natural Hazard Risk Assessment

Laura Siebeneck, University of Utah
An Assessment of the Return-Entry Process for Hurricane Rita, 2005

Recorder:

Brittney Townsend, University of South Carolina

5:45 - 7:15 pm
Millennium/Century Rooms

Poster Session/Hosted Happy Hour

Take advantage of the casual atmosphere to exchange information, continue discussion of current hazards issues, and meet old and new friends. Complimentary beer, wine, and tasty appetizers will be served.

8 - 10 pm
Grand Ballroom

Movie Night

Come enjoy two superb disaster-oriented films and meet the filmmakers themselves.

8 - 9 pm *9/12: From Chaos to Community*
By: Suzanna Styron and Jacki Ochs

9 - 10 pm *The Water's Edge*
By: Marshall Frech

Tuesday, July 10

7 - 8:15 am
Room 331

GIS and Disasters Roundtable

Join this informal meeting if you are interested in the use of geographic information systems (GIS) for natural hazards management.

Conveners:

Louise Comfort, University of Pittsburgh

8:15 - 9 am
Gardens

Coffee and Danish

9:15 - 10 am
Grand Ballroom

Keynote Address

Sálvano Briceño, Director, United Nations International Strategy for Disaster Reduction

10 - 10:30 am
Gardens

Break

10:30 am - 12 pm
Grand Ballroom

Plenary #2: Social Vulnerability: The Nexus of Disaster Management

In recent years, the international community has recognized the importance of considering the social, economic, and environmental impacts of a wide spectrum of risks. While vulnerability is acknowledged as a major development factor, approaches to measuring, assessing, and addressing vulnerability vary widely. There is a need to push the envelope of vulnerability science and squarely place vulnerability considerations on the disaster reduction agenda.

Moderator:

Koko Warner, United Nations University/Institute for Environment and Human Security

Panelists:

Sálvano Briceño, United Nations International Strategy for Disaster Reduction

Maureen Fordham, University of Northumbria

Tony Oliver-Smith, University of Florida

Recorder:

Valeria Hwacha, Public Safety Canada

12 - 2 pm
Pavillion

Lunch

If you prepurchased your lunch, your name badge is marked with a **green** stamp. Please have your badge with you when you go through the line.

1 - 2 pm
Room 331

Director of Disaster Centers Meeting

Directors of hazards and disasters centers are encouraged to attend. Planning, staffing, and funding issues will be discussed.

Conveners:

Shirley Laska, University of New Orleans

Walter Peacock, Texas A&M University

Tuesday, July 10

Concurrent Sessions:

2 - 3:30 pm
Canyon Room

'All-Hazards' in Theory and Practice

The concept of 'all-hazards' management has been a guiding principle for the hazards and disasters community for over a decade. However, a theoretical understanding of what constitutes all-hazards is often quite different from practice and implementation. Concerns about how to define all-hazards and how to incorporate civil defense considerations can lead to confusion and can complicate the development of effective policies and programs for any hazard. Panelists will discuss how law enforcement and prevention concerns have recently altered the meaning and practice of all-hazards management and how communities can define and implement policies that maximize the commonalities between disaster types and scales while maintaining sufficient flexibility to respond to the unexpected.

Moderator:

Julie Baxter, AMEC Earth and Environmental

Discussants:

Nicole Dash, University of North Texas

Michel Doré, Ministère de la Sécurité Publique du Québec

Richard Rotanz, Adelphi University

Edward Thomas, Michael Baker Jr., Inc.

Recorder:

John Wiener, University of Colorado, Boulder

2 - 3:30 pm
Flagstaff Room

Children and Youth in Disasters

The research documenting the experiences and roles of children and youth in disasters is limited and typically portrays them as a member of other vulnerable social groups. Many still tend to assume that children and young people are passive victims with no role to play in communicating risks or preventing and responding to disasters. This session will explore the range of research and practices that engage children and youth in disasters.

Moderator:

Alice Fothergill, University of Vermont

Discussants:

Jane Bullock, Bullock and Haddow, LLC

Katharine Haynes, Center for Risk and Community Safety/Risk Frontiers

Lori Peek, Colorado State University

Recorder:

Thalia Goldstein, Boston College

Tuesday, July 10

2 - 3:30 pm
Millennium Room

Disaster Risk Reduction: Global Concepts and Local Experiences

Central to the disaster risk reduction challenge is the question of whether risk reduction is a developmental or disaster management responsibility. The concept of reducing the risk of disasters and their impacts is broadly accepted at the policy level and incorporated into a number of declarations and frameworks. At the same time, the successful application of the concept has been rare, or at least not well publicized. While everyone agrees risk reduction is necessary, there is not always agreement as to who should do it or how it should be done. An underlying theme of this panel session will be a sharing of experience across disciplines and geographic regions.

Moderator:

Charles Kelly, Benfield ULC Hazard Research Centre

Discussants:

Douglas Pattie, United Nations International Strategy for Disaster Reduction
William Siembieda, California Polytechnic State University
Moses Sikivou, SOPAC

Recorder:

Cam Filmer, Provincial Emergency Program, Canada

2 - 3:30 pm
Sugarloaf Room

Who Let the Dogs Out? Pets in Disasters

During a disaster and potential evacuation, pet owners are often faced with difficult decisions surrounding pet care that may ultimately compromise their own safety and security. A lack of animal shelters, prohibitions for dogs and cats in human evacuation centers and hotels, and difficulties in transporting pets can lead owners to leave animals unattended at the home or even to ignore evacuation warnings entirely. With approximately 73 million domestic dogs and 90 million domestic cats in the United States alone, the care and accommodation of pets in disasters is an issue of vital, but underappreciated, importance for disaster management professionals. This panel will focus on issues involving safety and pet care during disaster evacuations.

Moderator:

Heidi Taylor, American Red Cross

Discussants:

Jim Boller, Code 3 Associates
Kevin Dennison, Colorado Veterinary Medical Foundation
Leslie Irvine, University of Colorado
Lee Miller, Sam Houston State University

Recorder:

Christine Bevc, Natural Hazards Center

Tuesday, July 10

2 - 3:30 pm
Trailridge Room

Evacuation in Simulation vs. Reality

Hazards professionals at all levels have come to rely on increasingly sophisticated computer models to simulate the evacuation from communities and/or buildings during disaster, fire, and terrorism events. These models seek to provide vital information to emergency planners on the quickest, safest, and most efficient means of evacuating people from harm's way. There are, however, serious questions about whether the models rely on appropriate assumptions of individual and group behaviors that are well grounded in research and reality. This panel will explore the assumptions made by current evacuation models, where they are lacking in behavioral capabilities, and what improvements can be made, if any, to these simulation techniques.

Moderator:

Erica Kuligowski, Natural Hazards Center

Discussants:

Yi-Chang Chiu, University of Arizona

Steve Gwynne, Hughes Associates

Elise Miller-Hooks, University of Maryland

Thomas Urbanik II, University of Tennessee

Recorder:

Deanne Criswell, City of Aurora Office of Emergency Management

3:30 - 4 pm
Gardens

Break

Concurrent Sessions (continued):

4 - 5:30 pm
Trailridge Room

Communicating Risk to Non-Native Speakers

According to the latest U.S. census, more than 17 percent of people living in the United States identified a language other than English as their native language. Language barriers can prevent non-native speakers from taking appropriate precautions and/or measures to avoid harm, which presents challenges to officials tasked with issuing warning messages. The mobility of migrant workers, the fear of legal difficulties, and the sometimes marginal economic status of immigrants all severely complicate attempts by public officials to adequately meet the disaster warning needs of these communities. Panelists will discuss the challenges of engaging legal and illegal immigrant communities in the context of disaster management.

Moderator:

Jennifer Santos, University of Delaware/Disaster Research Center

Discussants:

Suzanne Frew, CirclePoint

Richard Krajewski, Presbyterian Disaster Assistance

Valli Wasp, New Mexico Office of Emergency Management

Recorder:

Edgar Villarreal, Texas A&M University

Tuesday, July 10

4 - 5:30 pm
Canyon Room

Improvisation in Disaster Response

Uncertainty and a need to “make do” in emergencies means organizations must improvise during response and recovery operations and initiate knowledge-based action under time and resources constraints. Such improvisations can contribute to organizational knowledge but can also be risky; they may run counter to accepted best practices, may involve considerable structural changes in the organization, or may conflict with public policy. This panel will discuss how improvised thought and behavior both inform and are shaped by organizational routine and public policy in emergencies.

Moderator:

Gary Webb, Oklahoma State University

Discussants:

Carter Butts, University of California, Irvine

Thalia Goldstein, Boston College

Tricia Wachtendorf, University of Delaware/Disaster Research Center

Recorder:

Marla Petal, Risk Reduction Education for Disasters

4 - 5:30 pm
Flagstaff Room

Questioning the Effectiveness of Innovative Land Use Planning for Natural Hazards

Innovation in land use planning has been touted as an effective tonic to the routine shortcomings of day-to-day planning for disaster risk reduction. As a result, innovative land use planning solutions for natural hazards risks have proliferated; however, there is some question as to whether this innovation necessarily equals successful mitigation. This session will present examples of seemingly innovative ideas for reducing the vulnerability to natural hazards, and panelists will discuss how successful innovations can be more effectively reproduced in other locales.

Moderator:

Bruce Glavovic, Massey University, New Zealand

Discussants:

Wendy Saunders, Institute of Geological and Nuclear Sciences, New Zealand

Judith Steele, J. Steele, Planning Solutions

Ken Topping, Topping Associates International

Recorder:

Rebekah Green, Columbia University/Earth Institute

Tuesday, July 10

4 - 5:30 pm
Sugarloaf Room

Scenario-Driven Catastrophic Disaster Planning: When Fiction Becomes Reality

The value of a scenario-driven exercise and planning approach to improving response to and recovery from catastrophic disasters was tested by the reality of Hurricane Katrina. Though the "Hurricane Pam" planning workshops for a major hurricane strike on New Orleans were unfinished when Katrina hit, the value of this approach has been publicly acknowledged by workshop participants, congressional investigators, and the national news media. Applicable to any natural disaster, this approach is being continued and refined via multi-year projects now underway that aim to improve preparedness for catastrophic earthquakes in the New Madrid Seismic Zone and for major hurricanes in Florida. This session will describe the development and testing of disaster scenarios that highlight the potential consequences of several of these hazards. The role of science and technology in reducing the impacts of disasters will also be considered.

Moderator:

Dennis Wenger, National Science Foundation

Discussants:

David Applegate, U.S. Geological Survey

Lee Clarke, Rutgers University

Mike Pawlowski, DHS/FEMA

Recorder:

Rory Connell, Innovative Emergency Management, Inc.

4 - 5:30 pm
Millennium Room

Who Counts as a Disaster Expert?

During the past five years, the number of disaster experts has increased significantly. However, the qualifications for expertise have ramifications far beyond academia. What makes someone an expert? What qualifies someone to testify before Congress or advise policy makers, and what are the repercussions to the field when inaccurate or erroneous information is passed along? A panel of experts will examine themselves.

Moderator:

Shirley Laska, University of New Orleans

Discussants:

William Anderson, National Research Council

Susan Cutter, University of South Carolina

Amanda Ripley, *TIME* Magazine

Recorder:

Eric Tate, University of South Carolina

6 - 9 pm
Lobby

BBQ—National Center for Atmospheric Research, Mesa Lab

The BBQ will be held at the Mesa Lab of the National Center for Atmospheric Research (NCAR), high above Boulder Valley. Dress is casual and sturdy walking shoes are recommended. If you pre-purchased a ticket, your name badge is marked with a **red** stamp.

The NCAR lobby and gift shop will be open. Browse the fun interpretive weather-related displays and walk the self-guided interpretive tour along the mesa.

Please board buses in front of the Millennium Hotel at starting at 5:45 p.m. The last bus will leave NCAR at 9:00 p.m. Maps are available at the registration desk if you choose to drive.

Wednesday, July 11

7 - 8:20 am
Millennium Room

Gender and Disasters Roundtable

All workshop participants are invited to attend this meeting, which will offer the opportunity for networking among those interested in gender issues in disasters.

Conveners:

Erica Kuligowski, Natural Hazards Center
Lori Peek, Colorado State University

Concurrent Sessions:

8:30 - 10 am
Century Room

Is the Proliferation of Weather Information Confusing?

Significant public and private investments over the last several decades have ensured that weather predictions and warnings are now more accurate than ever. At the same time, however, the information is now generated from numerous sources and disseminated through a variety of new methods. With the proliferation of information and dissemination sources, potential conflicts in message timing and consistency may lead to conflicted citizen understanding about risk and protective action. Panelists will discuss how this potential for information conflict and saturation can create problems for emergency management and public preparedness.

Moderator:

Julie Demuth, NCAR/Societal Impacts Program

Discussants:

Chris Maier, NOAA/National Weather Service
Mike Nelson, ABC Affiliate KMGH TV

Recorder:

Lesley Ewing, California Coastal Commission

8:30 - 10 am
Flagstaff Room

Do Government Policies and Programs Result in Effective Public Mitigation Action?

With studies showing the substantial economic and social benefits of pre-disaster mitigation, questions still remain about how to effectively induce individuals to engage in personal mitigation and preparedness activities. Most government efforts rely, to some degree, on a mixture of public education programs and regulations, leaving economic incentives (or disincentives) to the private sector and other market forces. But what actually leads individuals to voluntarily adopt risk-wise behavior? Where is the threshold point at which people decide to perform mitigation activities, and to what extent is the insurance industry the real driver of behavioral change?

Moderator:

Richard Eisner, Fritz Institute

Disussants:

Helen Grant, Environment Canterbury, New Zealand
Haruo Hayashi, Kyoto University
Pam Pogue, Association of State Floodplain Managers

Recorder:

John Lindsay, Brandon University

Wednesday, July 11

8:30 - 10 am
Canyon Room

Conducting All-Hazards Emergency Management within a Federalist Form of Government

To improve the nation's ability to respond to catastrophic events, there is an urgent need to enhance mutual response agreements among state and local governments and emergency responders. National systems, such as the National Incident Management System (NIMS) and the National Response Plan (NRP), are being integrated into emergency response plans to create a standard and universal system for requesting, receiving, and managing necessary resources. With these presidentially mandated programs finally in place after years of effort, this session will examine the issues and challenges associated with conducting all-hazards emergency management in a post-9/11 and post-Katrina environment. The focus will be on perceptions of the federal government's changing role.

Moderator:

Cathleen Carlisle, DHS/FEMA

Discussants:

Bruce Baughman, Alabama Emergency Management Agency

Claire Rubin, Claire B. Rubin & Associates

Patricia Stahlschmidt, DHS/FEMA Strategic Planning and Analysis

Recorder:

Kathleen Smarick, University of Maryland/START

8:30 - 10 am
Millennium Room

The Role of Planners in the Rebuilding Process

This session will bring together key players in the recovery planning process along the Gulf Coast to discuss neighborhood-, municipal-, and state-level planning perspectives after a catastrophic disaster. It will involve an examination of the planning capacity in the states of Louisiana and Mississippi, analysis of how gaps in the planning capacity are being addressed, and a discussion of how planners specifically address local and state planning and rebuilding in both states, including a close look at the process in New Orleans.

Moderator:

Jim Schwab, American Planning Association

Discussants:

Jeff Hebert, Louisiana Recovery Authority

Laurie Johnson, Independent Consultant

Gavin Smith, PBS & J Consulting

Recorder:

Grace Koshida, Environment Canada

Wednesday, July 11

8:30 - 10 am
Trailridge Room

Continuity of Operations during Pandemic

Pandemic flu presents unique challenges for response and recovery operations. Issues of scale (global) and duration (weeks to months) necessitate a radically different emergency response, centered primarily on local sustainability of resources and continuity of operations among critical services. In many instances, businesses are at the forefront of pandemic planning, developing detailed contingency plans. Federally mandated response plans vary in their philosophy, scope, and objectives. This panel will look at some of the successes that the business community may be able to share with municipalities and community health officials at all levels.

Moderator:

Megumi Kano, UCLA School of Public Health

Discussants:

Eric Holdeman, ICF International

David Hutton, Public Health Agency of Canada

Mary Moorhouse, TNT RN Enterprises

Monica Schoch-Spana, University of Pittsburgh Medical Center for Biosecurity

Recorder:

Kristy Kubota, UCLA Center for Public Health and Disasters

10 - 10:30 am
Gardens

Break

10:30 - 11:30 am
Grand Ballroom

Closing Keynote Address

Lucile Jones, Multi Hazards Coordinator for Southern California, U.S. Geological Survey

11:30 am - 12 pm
Grand Ballroom

Closing Remarks

Kathleen Tierney, Natural Hazards Center