

# Tracks and Sessions

## Track 1: Carless and Vulnerable Populations (V)

Hosted by the Baton Rouge Area Foundation and the Irene W. and C.B. Pennington Foundation

### Session 1: Setting the Stage: Evacuation Planning for Carless and Vulnerable Populations

Location: Orleans

Moderator: John Renne

Panel Code: D1V1

- *Volunteer Mobilization for Evacuation*  
Robert Fogerty, Evacuteer
- *Vulnerable Population Registry for the City Assisted Evacuation Plan*  
Evangeline Franklin, City of New Orleans Health Department
- *Lessons Learned in Evacuation Planning*  
Jim Chesnutt, Nusura; Richard Devylder, California Emergency Management Agency  
Presenter: Gary Gleason, Nusura
- *Update on the National Study of Carless and Special Needs Evacuation Study*  
John Renne, University of New Orleans  
Presenter: John Renne

### Session 2: Modeling and Logistics for Evacuation Management

Location: Conde

Moderator: Jon Carnegie

Panel Code: D1V2

- *Special Needs Evacuation: The Problem of Multiple Facility Evacuation During Disaster*  
Jon Carnegie, Alan M. Voorhees Transportation Center - Rutgers University  
Presenter: Jon Carnegie
- *Evaluation of the Use of Rural Transportation Infrastructure in Evacuation Operations*  
Jaydeep Chaudhari, Western Transportation Institute - Montana State University  
Presenter: Jaydeep Chaudhari
- *Fuel Demand Estimation for Regional Hurricane Evacuation*  
Raju Gottumukkala, Ramesh Kolluru, Xiaoduan Sun, Mark Smith, Bob Grambling, Haochun Zhang, NIMSAT Institute - University of Louisiana at Lafayette  
Presenter: Raju Gottumukkala
- *Modeling Mass Evacuation Operation Centers: A Case Study in New Orleans*  
Yongchang Ma, Justin Krometis, and Atri Sen, IEM  
Presenter: Justin Krometis, IEM



*Baton Rouge  
Area Foundation*

**Session 3:** Creating an Inclusionary Planning Process for Vulnerable Populations

Location: Maurepas

Moderator: Jon Bushnell

Panel Code: D1V3

- *Disaster Issues for the Carless and Vulnerable Populations, and How to Include Persons with Disabilities and Seniors in the Planning Process as Part of the Solution*  
Linda Carter, No Person Left Behind  
Presenter: Linda Carter
- *Preparing Together: A Preparedness Initiative for Seniors and People with Disabilities*  
Mike Orfitelli, Territorial Disaster Services Coordinator, The Salvation Army  
Presenter: Mike Orfitelli
- *Special Needs Communication Plan*  
Christy Willhite, Houston-Galveston Area Council  
Presenter: Christy Willhite

**Session 4:** Women, Latinos and Immigrant Populations

Location: St. Jerome

Moderator: George Haddow

Panel Code: D1V4

- *Talking About Emergency Preparedness: Overcoming Social and Cultural Barriers to the Dissemination of Emergency Preparedness Information*  
David Calkins, Virginia Commonwealth University  
Presenter: David Calkins
- *Planning for the Unique Needs of Children in Disaster Evacuations*  
Jane Bullock, George Haddow, and Damon Coppola, Bullock & Haddow, LLC, Jeanne DeMarrais and Kate Dischino, Save the Children  
Presenter: George Haddow
- *The Women of Logan Square: Care Giving, Networks, and Geographic Vulnerability*  
Lisa Schweitzer, Pam Murray-Tuite, Henry Sullivan, Claudia Avendano, University of Southern California  
Presenter: Henry Sullivan
- *Ensuring Latino Immigrant Access in Times of Disaster: Lessons Learned from the 2007 California Wildfires*  
Konane Martinez, Anna Hoff, Arcela Nunez-Alvarez, and Amy Ramos, National Latino Research Center - California State University San Marcos  
Presenters: Konane Martinez and Anna Hoff

**Session 5:** A Multimodal Approach to Evacuating Carless and Vulnerable Populations

Location: Conde

Moderator: Tom Sanchez

Panel Code: D2V5

- *Planning for Successful Rail Evacuation*  
Jon Bushnell, IEM; Jocelyn Harper, Amtrak; Shelby Rushing, IEM  
Presenters: Jon Bushnell, Jocelyn Harper, and Shelby Rushing
- *Evacuation Preparedness Evaluation of Public Transportation and School Buses in Rural Coastal Communities of the North Gulf Region*  
Jaydeep Chaudhari, Western Transportation Institute - Montana State University  
Presenter: Jaydeep Chaudhari
- *Air Evacuation Operations*  
Stephen Robertson and Donald Griffith, IEM  
Presenters: Stephen Robertson and Donald Griffith

**Session 6:** Specific Needs: Mobile Home Park Residents and Persons with Disabilities

Location: Frontenac

Moderator: Dennis Zaenger

Panel Code: D2V6

- *Evacuation Challenges of Mobile Home Park Residents in Florida: A Complex Problem*  
Maggie Kusenbach, University of South Florida; Beverly G. Ward, BGW Associates, LLC  
Presenter: Maggie Kusenbach
- *Understanding the Impact of Disability on Disaster Evacuation Behavior: Individual and Community-level Contextual Effects on Evacuation Decisions, Preparedness and Outcomes*  
Brian J. Gerber, Louisiana State University; Carl Cameron, IRI; Frances Norwood, IRI; Michael Zakour, West Virginia University  
Presenter: Brian Gerber

**Session 7:** Richard Devylder

Location: Orleans

Panel Code: D2V7

Introduction by Brian Gerber, Public Administration Institute, Louisiana State University

Panel Member:

- *Integrating Access and Functional Needs into Planning*  
Richard Devylder, Special Advisor to the Secretary for the California Emergency Management Agency

**Session 8:** Planning and Preparedness for Vulnerable Populations and Public Health Concerns

Location: Maurepas

Moderator: Margaret Fowke

Panel Code: D2V8

- *Challenges in Pre-Landfall Evacuation of Medical Special Needs Patients Before Hurricane Ike*  
Richard Bradley, The University of Texas Health Science Center at Houston  
Presenter: Richard Bradley
- *"But I'm not a Meteorologist" – Using NWS Weather Information in Medical Facility Preparedness*  
Margaret Fowke, National Weather Service  
Presenter: Margaret Fowke
- *Shelter-in-Place vs. Evacuation Decision-Making: A Systematic Approach for Hospitals*  
Natasha Efrat, Robert Riccio, Kelly Sanders, and Dennis Zaenger, Altarum Institute  
Presenter: Dennis Zaenger

**Session 9:** Health and Medical Issues Related to Evacuating Vulnerable Populations

Location: Orleans

Moderator: Kirk Barnes

Panel Code: D2V9

- *Emergency Response and the Healthcare Safety Net*  
Kirk Barnes, U.S. Health and Human Services  
Presenter: Kirk Barnes
- *Chronic Disease as an Evacuation Impediment: Using a Geographic Information System and 911 Call Data After Katrina to Determine Neighborhood Scale Health Vulnerability*  
Andrew Curtis, University of Southern California  
Presenter: Andrew Curtis
- *Beyond Hurricane Katrina: Experiences of Evacuation and Improvements in Disaster Readiness*  
Denise Danna, Marirose Bernard, and Pamela Matthews, Louisiana State University Health Sciences  
Presenters: Denise Danna and Marirose Bernard

## Track 2: Evacuation Modeling (M)

### Hosted by the U.S. Department of Transportation

#### Session 1: Decision Support Tools

Location: Frontenac

Moderator: William Wallace

Panel Code: D1M1

- *EvacMYTC: A Real-time Toolset for Inside Building Evacuation*  
Yichun Xie and Xiaolin Luo, Eastern Michigan University  
Presenter: Yichun Xie
- *Traffic Management for Planned Special Events Using Traffic Micro Simulation Modeling and Tabletop Exercises*  
William A. Wallace and Jeffrey M. Wojtowicz, Rensselaer Polytechnic Institute  
Presenter: Jeffrey Wojtowicz
- *Towards Highly Interactive, GPU-based Evaluation of Evacuation Transport Scenarios at State-Scale*  
Kalyan S. Perumalla, Brandon G. Aaby, Srikanth B. Yoginath, and Sudip K. Seal, Oak Ridge National Laboratories  
Presenter: Kalyan S. Perumalla
- *HURREVAC2010 – Evacuation Decision Tool*  
Rick Darnell, Corps of Engineers, Mobile District  
Presenter: Rick Darnell

#### Session 2: Modeling Household Decision Making Transit and Carless

Location: Maurepas

Moderator: Mike Robinson

Panel Code: D1M2

- *Model for Evacuation of the Carless*  
Chi Pak Chan and Mark D. Hickman, The University of Arizona  
Presenter: Chi-Pak Chan
- *Is It Time to Go Yet? Dynamically Modeling Household Hurricane Evacuation Decisions*  
Jeffrey Czajkowski, Austin College and Florida International University  
Presenter: Jeffrey Czajkowski
- *Addressing Uncertainty in Travel Modalities for an Emergency Evacuation*  
Sue Thomas and Ed Lieberman, KLD Associates, Inc.; Natalie Jones Best, DC Department of Transportation  
Presenter: Sue Thomas



U.S. Department  
of Transportation

**Federal Highway  
Administration**

**Session 3:** Region Modeling

Location: Orleans Room

Moderator: Debbie Matherly

Panel Code: D1M3

- *Simulation of Emergency Evacuations for Large Metropolitan Area*  
Hubert Ley, Argonne National Laboratory  
Presenter: Hubert Ley
- *Region-Wide Microscale Simulation for Multimodal Evacuation: The New Orleans TRANSIMS Case Study*  
Vinayak Dixit and Brian Wolshon, Louisiana State University  
Presenters: Brian Wolshon and Vinayak Dixit

**Session 4:** Control

Location: Conde Room

Moderator: Vinayak Dixit

Panel Code: D1M4

- *Running from Rita - Hiking from Ike*  
Darrell W. Borchardt, P.E. and Anthony P. Voigt, P.E., Texas Transportation Institute, Texas A&M University; David E. Fink, P.E. and John M. Gaynor, P.E., Houston TranStar, Texas Department of Transportation  
Presenter: Darrell W. Borchardt
- *A Coordinated Control System for Emergency Evacuation*  
Samer Hamdar, The George Washington University  
Presenter: Samer Hamdar
- *When the Time is Right - Decision Support for Implementing Contraflow*  
Russell Henk, Texas Transportation Institute  
Presenter: Russell Henk
- *Contraflow Operations for Hurricane Evacuation: Lessons Learned from an Alabama Case Study*  
Virginia Sisiopiku and Abdul Muqueet, University of Alabama at Birmingham; Kyriacos Mouskos, CCNY; Curtis Barrett, VTG Inc.; Athanasios Ziliaskopoulos, University of Thessaly  
Presenter: Virginia Sisiopiku

**Session 5: Planning**

Location: Maurepas

Moderator: Xuwei Chen

Panel Code: D2M5

- *Real-time Tracking of Evacuees and Mobile Transportation Assets by the State of Texas*  
Gordon Wells, University of Texas Center for Space Research; Lesia Dickson, Radiant RFID, LLC  
Presenters: Gordon Wells and Lesia Dickson
- *A Storm Surge Scale for Evacuation Planning*  
P.J. Fitzpatrick, Y. Lau, N. Tran, Y. Li, and C.M. Hill, Geosystems Research Institute, Mississippi State University  
Presenter: Pat Fitzpatrick
- *Risk Reduction through Assimilation of Local Doppler Radar Information*  
Haldun Karan, Northern Gulf Institute - Mississippi State University  
Presenter: Haldun Karan

**Session 6: Simulation**

Location: St. Jerome

Moderator: Russell Henk

Panel Code: D2M6

- *An Inventory and Assessment of Models Used to Predict Emergency Evacuation and Consideration of Increasing Policy Maker Involvement*  
Carol Abel Lewis, Ph.D., Texas Southern University  
Presenter: Carol Abel Lewis
- *Simulating the Evacuation of a Large Commercial Shopping District*  
Manuel D. Rossetti, Ph.D, P.E. and Qingbiao Ni, University of Arkansas  
Presenter: Manuel D. Rossetti
- *Simulation Study of Operational Strategies for Congestion Mitigation during Emergency Evacuation*  
Chao Li, Beijing University of Technology; Feng Wang, Jackson State University; Xuesong Zhou, University of Utah;  
Xiaoming Chen, University of Utah  
Presenter: Feng Wang

**Session 7:** Optimization

Location: Conde Room

Moderator: Brian Wolshon

Panel Code: D2M7

- *Managing Large-Scale Multimodal Emergency Evacuations*  
Hossam Abdelgawad and Baher Abdulhai, University of Toronto  
Presenter: Hossam Abdelgawad
- *Modeling and Simulation of Staged Evacuations: A Case Study of Hurricane Evacuations of Galveston Island*  
Xuwei Chen, Northern Illinois University  
Presenter: Xuwei Chen
- *Critical Intersection Signal Optimization During Urban Evacuation Utilizing Dynamic Programming*  
Scott Parr and Evangelos Kaisar, Florida Atlantic University  
Presenter: Evangelos Kaisar

**Session 8:** Simulation in Planning and Pre-Planning

Location: Frontenac Room

Moderator: Samer Hamdar

Panel Code: D2M8

- *Sheltering Network Planning and Management Responding to Natural Disasters*  
Mingzhou Jin and Lingfeng Li, Mississippi State University  
Presenter: Mingzhou Jin
- *Modeling Protecting the Public While Reducing Licensee Burden: Population Sensitivity Analysis for Nuclear Power Plant Evacuation Time Estimate (ETE) Studies*  
Yongchang Ma, Justin Krometis, and Atri Sen, IEM  
Presenters: Atri Sen, IEM
- *Transit-Based Emergency Evacuation Simulation Modeling*  
Hana Naghawi and Brian Wolshon, Louisiana State University  
Presenter: Hana Naghawi

### Track 3: Communication and Behavior (C)

#### Hosted by the Gulf Coast Center for Evacuation and Transportation Resiliency



#### **Session 1:** Human Behavior Under Threat

Location: Frontenac

Moderator: Betty Morrow

Panel Code: D1C1

- *Run From the Wind: The Over-Estimation of Hurricane Risk*  
Hugh Gladwin, Institute for Public Opinion Research, Florida International University  
Presenter: Hugh Gladwin
- *Forecasting Driver Decision-Making During Catastrophic Event Evacuations*  
R. Michael Robinson and Peter Foytik, Virginia Modeling, Analysis, and Simulation Center; Asad Khattak, Old Dominion University  
Presenter: R. Michael Robinson
- *Emergency Response and Traffic Congestion: Dispatchers' Perspectives*  
Andrew Sullivan and Virginia Sisiopiku, University of Alabama at Birmingham  
Presenter: Virginia Sisiopiku
- *Evacuation Planning and Elementary Schools: The Role of Household Choice in Developing a Communication Strategy*  
Henry Sullivan, The Center for Neighborhood Technology; Lisa Schweitzer, University of Southern California;  
Pamela Murray-Tuite, Virginia Tech  
Presenter: Henry Sullivan

#### **Session 2:** Communicating Risk

Location: Orleans

Moderator: Brian Wolshon

Panel Code: D2C2

- *Evacuation vs. Shelter-in-place: How will residents respond?*  
Jon Carnegie, Alan M. Voorhees Transportation Center, Rutgers University  
Presenter: Jon Carnegie
- *Watch Out! What Do We Know About Communicating Risk?*  
Betty Hearn Morrow, SocResearch Miami  
Presenter: Betty Hearn Morrow
- *Warning and Evacuation in the 2007 San Diego Wildfires*  
John Sorenson and Barbara Vogt Sorenson, Oak Ridge National Laboratory  
Presenter: John Sorenson
- *Who Evacuates When Hurricanes Approach? The Role of Risk and Information*  
Robert Stein, Leonardo Dueñas-Osorio, and Devika Subramanian, Rice University  
Presenter: Robert Stein

## Track 4: Policy (P)

### Hosted by the University of New Orleans



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#### **Session 1:** Improving Policy and Planning through Behavioral Assessment

Location: Frontenac

Moderator: Betty Morrow

Panel Code: D1P1

- *Family Gathering in Evacuations: The 2007 Angora Wildfire in South Lake Tahoe, CA*  
Thomas Cova and Marquessa van Drimmelen, University of Utah  
Presenter: Thomas Cova
- *Development of Time-Dependent, Audio-Visual, Stated Choice Method of Data Collection for Hurricane Evacuation Behavior*  
Ravindra Gudishala and Chester Wilmot, Louisiana State University  
Presenter: Ravindra Gudishala
- *Communications and Human Behavior in Evacuations*  
Princess Jackson, Ph.D., Health Resources and Services Administration; Amy Gray-Graves, Ph.D., University of North Texas;  
Wanda DeMello, M.B.A, Health Resources and Services Administration  
Presenter: Princess Jackson
- *Understanding Public Response to Nuclear Power Plant Protective Actions*  
Fotini Walton, Sandia National Laboratory; Brian Wolshon, Louisiana State University; Randy Sullivan, U.S. Nuclear Regulatory Commission  
Presenter: Fotini Walton

#### **Session 2:** Lessons Learned, Lessons to Learn for Evacuation Management Policymaking

Location: St. Jerome

Moderator: Martin Gould

Panel Code: D2P2

- *The Evacuation of New Orleans for Hurricane Katrina: A Synthesis of the Available Data*  
Ezra Boyd, Louisiana State University  
Presenter: Ezra Boyd
- *Evacuation Planning in the Aftermath of Katrina: Lessons Learned*  
David S. Heller, South Jersey Transportation Planning Organization  
Presenter: David Heller
- *Registered Sex Offenders in Disaster Shelters and Evacuation Planning*  
Stephen J. Miller MS, JD, LL.M., Federal Department of Health and Human Services  
Presenter: Stephen J. Miller
- *Resource Typing & Position Credentialing: How They Can Help in Your Operations*  
Brian R. Usher, Department of Public Works, City of Largo, FL  
Presenter: Brian R. Usher

## Track 5: Animals (A)

Hosted by **Stephenson Disaster Management Institute**

**Session 1:** Nontraditional Evacuation Issues: The Impact of Animals on Evacuation Management

Location: Maurepas

Moderator: Rebecca McConnico

Panel Code: D1A1

- *Nontraditional Evacuation Issues: The Impact of Animals on Evacuation Management*  
Rebecca McConnico, Louisiana State University and Louisiana State Animal Response Team; Daniel E. DeSousa, County of San Diego, Department of Animal Services; Rebecca Adcock, Renee Poirrier D.V.M., Louisiana State Animal Response Team; Beth Adcock, Mississippi Board of Animal Health

## Track 6: Nuclear (N)

Hosted by **Nuclear Regulatory Commission**

**Session 1:** Nexus Between Protective Actions and the Evacuation Time Estimate

Location: Conde

Moderator: Robert Kahler

Panel Code: D1N1

Panel Members:

- Robert Kahler, U.S. Nuclear Regulatory Commission
- Patricia Milligan, U.S. Nuclear Regulatory Commission
- Randy Sullivan, U.S. Nuclear Regulatory Commission

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## Information Session (S)

### **Session 1:** Nuclear Power Plants ETE

Location: St. Jerome

Moderator: Robert Kahler, U.S. Nuclear Regulatory Commission

Panel Code: D1S1

Panel Members:

- Randy Sullivan, U.S. Nuclear Regulatory Commission
- Joe Jones, Sandia National Laboratory
- Brian Wolshon, Gulf Coast Center for Evacuation and Transportation Resiliency
- Jeff Laughlin, U.S. Nuclear Regulatory Commission

### **Session 2:** Lessons Learned Information Sharing (LLIS.gov)

Location: St. Jerome

Panel Code: D1S2

Panel Members:

- Jennifer Smither, Lessons Learned Information Sharing (LLIS.gov)

### **Session 3:** National Commission on Children and Disasters & National Council on Disability

Location: Orleans

Moderator: Joanne Moreau, East Baton Rouge Mayor's Office of Homeland Security and Emergency Preparedness

Panel Code: D1S3

Panel Members:

- *Effective Emergency Management: Making Improvements for Communities and People with Disabilities*  
Pat Pound, National Council on Disability  
Presenters: Pat Pound and Martin Gould
- Bruce Lockwood, National Commission on Children and Disasters

### **Session 4:** Swedish National Air Medivac - Lessons Learned from Mumbai

Location: Maurepas

Panel Code: D2S4

Moderator: Vince Pearce, U.S. Department of Transportation

Introduction by Tom Anderson, Interim Executive Director, Stephenson Disaster Management Institute, Louisiana State University

Panel Members:

- Annika Wallengren, Swedish Transport Agency
- Per-Ake Nilsson, Swedish National Board of Health and Welfare