The 5th National Nonstructural Floodproofing Conference and Exposition
Levees and Beyond: Making Wise Choices

November 28 – December 1, 2011
Hyatt Regency Sacramento
Sacramento, California

CONFERENCE PROGRAM

SPONSOR

Dewberry

COOPERATING PARTIES
Association of State Floodplain Managers

U.S. Army Corps of Engineers
Headquarters | National Non-Structural / Floodproofing Committee
South Pacific Division | Sacramento District

DHS-Federal Emergency Management Agency
Headquarters - Mitigation Division | Region IX
### Monday, November 28

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<tr>
<td>11:00am – 5:00pm</td>
<td>Registration</td>
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<tr>
<td>Noon – 5:00pm</td>
<td><strong>Pre-conference Field Tour – Napa</strong></td>
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<td>Wear comfortable clothes and shoes. Light snacks and soft drinks will be provided on the tour. Rain or shine!</td>
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<td>1:00pm – 5:00pm</td>
<td><strong>Pre-Conference Workshops – Advanced Registration Required</strong></td>
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<td><strong>Golden State AB</strong></td>
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<td></td>
<td><strong>Creative Strategies for Post-Disaster Construction - A Patchwork Quilt</strong></td>
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<td>Instructors: Edward A. Thomas, Esq., Michael Baker, Jr., Inc.; Alessandra Jerolleman, CFM, Natural Hazards Mitigation Association</td>
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<td><strong>Tahoe</strong></td>
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<td><strong>Flood Risk Communication Essentials: What people know about flood risk and what we can do about it?</strong></td>
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<td>Instructors: Torrie McAllister, USACE South Pacific Division; Kathy Schaefer, PE, CFM, FEMA Region IX</td>
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<td><strong>Carmel AB</strong></td>
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<td></td>
<td><strong>Floodproofing / Nonstructural Multi-Disciplinary Tools &amp; Techniques</strong></td>
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Tuesday, November 29

7:30am – 6:00pm  Registration  
**Regency Foyer**

7:30am – 8:30am  Continental Breakfast  
**Regency Foyer**

8:30am – 10:00am  Opening Plenary Session 1  
**Regency BC**

**Welcome, Opening Remarks**
**Alicia Kirchner**, Chief of Planning Division, Sacramento District, U.S. Army Corps of Engineers

**Nonstructural Floodproofing Approaches in a Flood Risk Context: Where have we been? Where are we now? Where should we go next?**
**Larry Larson**, P.E., CFM, Executive Director, ASFPM
**Doug Plasencia**, P.E., CFM, Michael Baker, Jr., Inc.; ASFPM Foundation Trustee

**Moderator:** **George Riedel**, CFM, Michael Baker, Jr., Inc.; ASFPM Floodproofing Committee Co-Chair

10:00am – 10:30am  Morning Break  
**Regency Foyer**

Concurrent Session A

10:30am - Noon  Track I: Policy Driving Practice  
**Golden State AB**

**Moderator:** **Shirley Laska**, Ph.D., Center for Hazards Assessment, Response and Technology, UNO

**Reconsidering the National Flood Insurance Program: The Benefits of a More Risk-Based System**  -- **Aaron Brandenburg**, National Association of Insurance Commissioners

**Amphibious Housing in the Netherlands and North America: Popular, Political and Permitting Issues and Challenges**  -- **Elizabeth English**, University of Waterloo; **Chris Zevenbergen**, DuraVermeer, IHE-UNESCO & TU Delft, Netherlands

**Is the NFIP pushing us in the right direction?**  -- A Discussion  -- **Facilitated by Alessandra Jerolleman**, CFM, Natural Hazard Mitigation Association, and **French Wetmore**, CFM, French & Associates, Ltd.
Tuesday, November 29 (cont’d)

10:30am – Noon  Track II-E: Technical - Engineering  Tahoe
Moderator: Wallace Wilson, PE, CFM, W.A. Wilson Consulting Services

Pre-Standard on Flood Damage-Resistant Materials  -- Julia Moline, CFM, Dewberry; John Ingargiola, CFM, EI, CBO, FEMA-HQ
Further Research Related to Flood Damage-Resistant Materials  -- Julia Moline, CFM, Dewberry; John Ingargiola, CFM, EI, CBO, FEMA-HQ
Flood Openings in Enclosures below BFE  -- John Ingargiola, CFM, EI, CBO, FEMA-HQ; John Squerciati, PE, CFM, Dewberry

10:30am – Noon  Track III: Education & Outreach  Carmel AB
Moderator: Kenneth Leep, CFM, Atkins

Out of the Box Outreach  -- Lynne H. Keating, CFM, MIT/FMI Branch, FEMA
Extension Programs in Community Development and VOAD, Training  -- Steve Cain, Communications/Homeland Security, Purdue University/EDEN; Carrie McKillip, University of Illinois Extension/EDEN; Eric Evans, University of Missouri Extension.
Using Future Condition Hydrology and Economic Analysis to Convey Risk to Community Members as Part of an Effective Outreach Program  -- Pal Hegedus, PE, D.WRE, RBF Consulting; George Riedel, CFM, Jim DeAngelo, CFM, Michael Baker, Jr.

10:30am – Noon  Track IV: Packaging, Funding, Formulating Projects  Big Sur AB
Moderator: Virginia Rynk, CFM, USACE Sacramento District

Incorporating Nonstructural Alternatives in Large-Scale Protection and Restoration Plans - State of Louisiana 2012 State Master Plan  -- Keven Lovetro, USACE-New Orleans District; Harold E. Clarkson, P.E., CFM, Brown and Caldwell
Collaboration Behind Floodplain Management Plans  -- Brian Rast, PE, CFM, PMP USACE-Kansas City District
Mitigation Project Scoping, the Bridge between Mitigation Planning and Successful Mitigation Project Funding  -- Deborah Mills, CFM; Julia Moline, EIT, CFM, Dewberry
Tuesday, November 29 (cont’d)

Noon – 1:30pm Keynote Luncheon 1

Regency BC

Considering the Broad Political Implications in Nonstructural Floodproofing Issues
Larry Buss, PE, D.WRE, CFM, USACE retired; ASFPM
Floodproofing Committee Co-Chair

Moderator: George Riedel, CFM, Michael Baker, Jr., Inc.; ASFPM Floodproofing Committee Co-Chair

Concurrent Session B

1:30pm – 3:30pm Track I: Policy Driving Practice

Golden State AB

Moderator: Chad Berginnis, CFM, ASFPM

Reducing Flood Impacts by Improving Building Codes behind California Levees -- Brian Walker, PE, CFM, California Department of Water Resources
Public Law 84-99 and Non-Structural Alternatives to Levee Repair - Two Iowa Examples -- Jerry Skalak, CFM, USACE - Rock Island District
Mitigation in Recovery and Rebuilding / National Disaster Recovery Framework -- Dr. Sandra Knight, Ph.D., PE, D.WRE, FEMA HQ
The Levees Crisis in America – an ASFPM Perspective -- Larry Larson, PE, CFM; Sam Riley Medlock, JD, CFM, ASFPM

1:30pm – 3:30pm Track II-E: Technical - Engineering

Tahoe

Moderator: Wallace Wilson, PE, CFM, W.A. Wilson Consulting Services

DFE vs BFE -- Manuel Perotin, PE, CFM; Adam Reeder, PE, CFM, Atkins
Updates to FEMA Benefit-Cost Analysis of Coastal A and V Zone Elevation and Acquisition Projects -- John Squerciati, PE, CFM, Dewberry; Jody Springer, Benefit Cost Program, FEMA HQ
Update to the Coastal Construction Manual (FEMA P-55) -- Glenn Overcash, PE; Tom Reynolds, PE, URS
Next Generation Hazard Mitigation Plan Vulnerability Analysis Strategies to Integrate Core Data Sets into HIRAs: Highlights of RiskMAP data opportunities in state, regional and local HIRA updates. -- Deborah Mills, CFM, Dewberry
Tuesday, November 29 (cont’d)

1:30pm – 3:30pm  
Track II-P: Technical – Practitioner

Moderator: Pat Skinner, LSU Ag Center

Assessment, Design, and Implementation of Fully-automatic Built-in Residential Dry Flood-proofing -- Ronald M. Helton, FloodSafe USA

Alternative Methods for Flood Proofing and Structural Enhancements in Existing Buildings Using FRP Fiber Technology -- Paul Gugenheim, Delta Structural Technology

Dry Floodproof Construction Research on the Gulf Coast -- Mike Grote; David Perkes, Gulf Coast Community Design Studio; Mississippi State University

Design and Cost Considerations of Levees for Small, Single Site Floodproofing -- Joseph P. Klein, III, PE, Dewberry

1:30pm – 3:30pm  
Track III: Education & Outreach

Involving the Property Owner -- French Wetmore, CFM, French & Associates, Ltd.

Extension Mitigation Messaging in Resilience, Recovery, and Rebuilding -- Virginia Morgan, ACES, Auburn University/EDEN; Phyllis Onstad, University of Minnesota Extension; Beverly Maltsberger, University of Missouri Extension/EDEN; Jody Thompson, MS-AL Sea Grant Consortium, Auburn University

The Oval Table: A Unique Coalition for Nonstructural Mitigation in Coastal Louisiana -- Alessandra Jerolleman, CFM, Natural Hazard Mitigation Association; Christopher Pulaski, RLA, Coastal Louisiana Organizer - National Wildlife Federation

Integrating Flood Proofing into Comprehensive Resiliency Considerations of Non Profit, For Profit and Public Entities -- Shirley Laska, Ph.D., Center for Hazards Assessment, Response and Technology, UNO

3:30pm – 4:00pm  
Afternoon Break & Exhibits Viewing

4:00pm – 5:15pm  
Plenary Session 2

How Do We Get People to Want Nonstructural / Floodproofing?

Clark Frentzen, PE, Chief, Planning and Policy, South Pacific Division, USACE

Chad Berginnis, CFM, Associate Director, ASFPM

Mayor Jill Techel, City of Napa, CA

Moderator: Deborah Mills, CFM, Dewberry

5:15pm – 7:00pm  
Exhibits Social, Sponsored by Dewberry

Use your BLUE tickets for beverages.
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<td>7:30am – 8:30am</td>
<td>Continental Breakfast &amp; Exhibits Viewing</td>
<td>Regency DEF</td>
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<td>8:30am – 10:00am</td>
<td>Plenary Session 3</td>
<td>Regency BC</td>
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<td>Regional, State &amp; Local Perspectives: Implementing Nonstructural Floodproofing on the Ground</td>
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<td>Ricardo Pineda, P.E., CFM, State Floodplain Manager, California Dept. of Water Resources</td>
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<td>Garth Gaylord, CFM, City of Roseville, CA (retired)</td>
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<td>Sally Ziolkowski, Director, Mitigation Division, FEMA Region IX</td>
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<td>Naomi Duerr, PG, DPE, Inc.</td>
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<td><strong>Moderator:</strong> Randall Behm, CFM, Chief, Flood Risk &amp; Floodplain Management Program, USACE Omaha District</td>
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<td>10:00am – 10:15am</td>
<td>Technical Field Tour Orientation</td>
<td>Regency BC</td>
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<td>10:15am – 10:30am</td>
<td>Brief Pit Stop</td>
<td>Regency Foyer</td>
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<td>Grab a coffee or soda to go and load the buses</td>
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<tr>
<td>10:30am – 4:30pm</td>
<td>Technical Field Tour</td>
<td>Bus Parking</td>
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<td>Wear comfortable clothes and shoes. A box lunch will be provided on the tour. Rain or shine!</td>
<td>(Valet drive in front of hotel)</td>
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<td>4:30pm – 6:30pm</td>
<td>Exhibits Social, <strong>Sponsored by Dewberry</strong></td>
<td>Regency DEF</td>
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<td>Use your RED tickets for beverages. Light hors d’oeuvres will be provided.</td>
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Thursday, December 1

7:30am – 3:15pm Registration

7:30am – 8:30am Continental Breakfast and Exhibits Viewing

8:30am – 10:00am Plenary Session 4

How is the Federal Government addressing nonstructural/floodproofing as a key element of flood risk reduction?

Dr. Sandra K. Knight, P.E., D.WRE, Deputy Federal Insurance and Mitigation Administrator, FEMA-DHS

Ray Alexander, Deputy Chief (Acting), Office of Homeland Security, USACE

Moderator: Susan Gilson, Executive Director, National Association of Flood and Stormwater Management Agencies

10:00am – 10:30am Morning Break and Final Exhibits Viewing

Concurrent Session C

10:30am – Noon Track II-P: Technical – Practitioner

Moderator: Bill Coulbourne, PE, Applied Technology Council

CodeMaster: Flood Resistant Design -- Christopher P. Jones, PE, and John Ingargiola, CBO, CFM, FEMA-HQ

There's More to Mitigation than Acquisition:
Successfully Elevating Structures in the Floodplain -- Kim Reeves, CFM; Vicki Holmes, CFM; Mitch McDonald, CFM, Orleans Shoring

Evolution of the Structural Elevation Industry - Technical Abilities and Industry Growth -- Rod Scott, Patterson Structural Moving and Shoring

10:30am – Noon Track IV: Packaging, Funding, Formulating Projects

Moderator: Alessandra Jerolleman, CFM, Natural Hazards Mitigation Association

Floodproofing Methods that Work in West Virginia -- Joe Trimboli, MSc, CFM, USACE-Huntington District

Silver Jackets Pilot Projects -- Jennifer Dunn, CFM, USACE-Institute of Water Resources

Silver Jackets Program for Non-structural Solutions - Plans and Processes -- Brandon Brummett, PE, USACE-Louisville District; Manuela Johnson, Indiana Department of Homeland Security
Thursday, December 1 (cont’d)

Discussion Sessions: Conference participants will have the opportunity to engage in interactive discussion sessions on the following topics. These discussion sessions will repeat in the afternoon sessions to maximize participation.

10:30am – Noon  Discussion Session A-1
What are the impediments to implementing more nonstructural floodproofing? How do we get past them?

Moderator:  Jerry Skalak, CFM, USACE - Rock Island District

10:30am – Noon  Discussion Session B-1
What are the roles of nonstructural / floodproofing in levee safety, aging infrastructure issues, and short and long term reliance on levees?

Moderator:  Randall Behm, CFM, Chief, Flood Risk & Floodplain Management Program, USACE Omaha District

Noon – 1:30pm  Keynote Luncheon 2
The Role of Nonstructural Floodproofing in Achieving Effective Flood Risk Management
Dr. Gerald E. Galloway, P.E., Ph.D., Professor of Engineering, University of Maryland

Moderator: Larry Buss, PE, D.WRE, CFM, USACE retired; ASFPM Floodproofing Committee Co-Chair

Concurrent Session D

1:30pm – 3:00pm  Track II-E: Technical – Engineering
Elevation in Multi-Hazard Situations -- Bill Coulbourne, PE, Applied Technology Council
Design of Pier and Ground Anchor Foundations Systems for Manufactured Home in Special Flood Hazard Areas -- Joseph P. Klein, III, PE, Dewberry
Amphibious Construction as an Alternative Floodproofing Strategy -- Elizabeth English, University of Waterloo

Moderator: Connie Perkins, CFM, California Dept. of Water Resources
Thursday, December 1 (cont’d)

1:30pm – 3:00pm  Track IV: Packaging, Funding, Formulating Projects

Identifying Strategies and Actions for Responsible Floodplain Management – A CNAI/NAI Approach  -- 
Terri Turner, AICP, CFM, August-Richmond County Planning Commission; Edward Thomas, Esq., Michael Baker, Jr., Inc.; Allison Hardin, CFM, City of Myrtle Beach

1:30pm – 3:00pm  Discussion Session A-2

What are the impediments to implementing more nonstructural floodproofing? How do we get past them?

Moderator: Gene Barr, CFM, CH2M Hill, Inc.

1:30pm – 3:00pm  Discussion Session B-2

What are the roles of nonstructural / floodproofing in levee safety, aging infrastructure issues, and short and long term reliance on levees?

Moderator: Larry Buss, PE, D.WRE, CFM, USACE retired; ASFPM Floodproofing Committee Co-Chair

3:00pm – 3:15pm  Afternoon Break

3:15pm – 4:45pm  Closing Plenary Session 5

Closing Remarks and Next Steps
Chad Berginnis, CFM, Associate Director, ASFPM
Larry Buss, PE, D.WRE, CFM, USACE retired; ASFPM Floodproofing Committee Co-Chair
George Riedel, CFM, Michael Baker, Jr., Inc.; ASFPM Floodproofing Committee Co-Chair

Moderator: Larry Larson, PE, CFM, Executive Director, ASFPM

THANKS FOR COMING!
WE WISH YOU SAFE TRAVELS HOME.