Disaster Resilient Design

A National Academies Disasters Roundtable Workshop
In conjunction with the
National Academy of Environmental Design
October 25-26, 2010 -- Washington DC

Objectives of this workshop are to:

• Identify intersections between sustainability and disaster resilience
• Identify ways to integrate green building and disaster resilience principles in the United States and internationally
• Identify new models for disaster resilient design research and education
• Raise awareness, facilitate dialogue, and create collaboration among experts in the disasters and environmental design communities through the Disasters Roundtable (DR), National Academy of Environmental Design (NAED), and allied organizations.

Tuesday October 26, 2010 – Venable Conference Center - 575 7th Street NW

8:45 am Welcome and Opening Remarks
Reginald DesRoches, DR

9:00 am Opening Session | Resilience+Sustainability
Kim Tanzer, President, NAED, Moderator

On Disaster Resilience: Ellis Stanley, DR, Dewberry, Inc.
On Sustainable Design: David Waggonner, Waggonner and Ball Architects

Opening Session | Panel Questions & Moderated Audience Discussion

10:15 – 10:30 Break

10:30 – 11:45 Morning Panel Discussion
Darlene Sparks Washington, DR, Moderator
Panelists:
Tom Tobin, EERI
Mary Comerio, UC-Berkeley
Elizabeth Dean Hermann, Rhode Island School of Design
Gavin Smith, Center for the Study of Natural Hazards and Disasters, UNC Chapel Hill

Department of Homeland Security Center of Excellence - Disasters, Coastal Infrastructure and Emergency Management
Panel Topics:

• What are the primary aims of Sustainable + Disaster Resilient Design?
• What are some of the challenges in achieving Disaster Resilient Design?
• What are some approaches to overcoming the challenges in realizing DRD?
• What are some lessons learned from successful and less-than-successful efforts of sustainable, resilient design?
• What are one or two key tenets to Disaster Resilient Design to consider in the afternoon Topical Discussion working groups?

Discussion, Questions and Answers

11:45 – 12:00 pm Afternoon Break Out Sessions Overview
Lauren Alexander Augustine, Director, Disasters Roundtable

• Structure and Objectives
• Moderator Introductions

12:00 – 12:45 LUNCH Break (On your own; Venable Cafeteria available for Workshop attendees.)

12:45 pm Reconvene

1:00 – 2:00 Concurrent Topical Discussion Working Groups

Questions to be addressed through Working Group Discussions
Question 1: What are the main messages to share about this topic? (Please present up to 5, documenting others in your minutes).
Question 2: Who and what target audiences need to receive these messages?
Question 3: How should the target audiences use the information of the main messages?
Question 4: What are some options to convey these messages to these audiences?

Group 1: Integrating Sustainable and Disaster Resilient Design
Overarching Question: how can sustainability and disaster resilience be integrated in physical design?

Facilitators
Arrietta Chakos, DR
Fritz Steiner and Linda Sorrento, NAED

Subject Matter Leads
David Waggonner
Doug Johnston
Victor Olgyay, NAED

Group 2: New Models for Disaster Resilient Design Research and Education.
Overarching Question: What are some new models to educate or prepare the next generation of researchers, practitioners, or educators of sustainable disaster resilient design?

Facilitators
Deborah Thomas and Dennis Wenger, DR
Tom Fisher, NAED
Subject Matter Leads
Austin Allen
Julia Badenhope and Tim Keller
Elizabeth Mossop
Jorg Siewecke
Gavin Smith
Jason Sowell and Nichole Weidemann
J. Phillip Thompson

Group 3: Disaster Resilient Design in International Contexts
Overarching Questions: How can Sustainable Disaster Resilient Design (SDRD) principles be put to best use in international contexts? What SDRD lessons can be learned from or applied to efforts in other countries?

Facilitators
Reggie DesRoches, DR
Robert Olshansky

Subject Matter Leads
Ellis Stanley, DR
Tom Tobin
Mary Comerio
Miho Mazereeuw

2:00 - 2:30 Break & Group Report Out Presentation Preparation
2:30 - 4:00 Group Report Out & Discussion
4:00 pm Summary Comments and Reflections on the Day
J. Wescoat, NAED
K. Hill, NAED

4:15 pm Closing Remarks & Follow Up Action Agenda
R. DesRoches, DR
L. Augustine, DR

4:30 pm ADJOURN
WORKSHOP PARTICIPANTS

Lauren Alexander Augustine is the Director of the Disasters Roundtable at the National Academies in the Division on Earth and Life Studies, and the Country Director in the National Academies’ African Science Academy Development Initiative (ASADI).

Austin Allen is a Professor of Landscape Architecture and documentary filmmaker at Louisiana State University in Baton Rouge.

Julia Badenhope is an Associate Professor of Landscape Architecture at Iowa State University.

Mary Comerio is Professor of Architecture at the University of California-Berkeley, and co-principal Investigator of the Network for Earthquake Engineering Simulation (NEES) Research Grand Challenge.

Reginald DesRoches is an Associate Chair and Professor in the School of Civil and Environmental Engineering at the Georgia Institute of Technology in Atlanta.

Dilip da Cunha teaches in the Department of Landscape Architecture at the University of Pennsylvania and the Parsons School of Design; he is a partner in the firm Mathur/da Cunha in Philadelphia.

Thomas Fisher is Professor and Dean of the College of Design at the University of Minnesota.

Elizabeth Dean Hermann is Professor of Architecture, Landscape Architecture, and Architectural History at the Rhode Island School of Design.

Kristina Hill is Associate Professor and Chair of Landscape Architecture at the University of Virginia.

Douglas Johnston is Professor of Landscape Architecture and Community and Regional Planning and Associate Dean for Research & Graduate Education at Iowa State University.

J. Timothy Keller is Professor and former head of Landscape Architecture at Iowa State University.

Miho Mazereeuw is an architect and landscape architect teaching at the Graduate School of Design, Harvard University.

Elizabeth Mossop is Professor and former Director of the School of Landscape Architecture at Louisiana State University; she is a principal in Spackman, Mossop+Michaels.

Victor Olgyay, is a Principal Architect on the Rocky Mountain Institute’s Built Environment Team in Boulder, CO.

Robert Olshansky is Professor and Associate Head of the Department of Urban and Regional Planning at the University of Illinois at Urbana-Champaign.

Jorg Siewecke is Assistant Professor of Landscape Architecture at the University of Virginia.
Gavin Smith is Research Professor and Executive Director at the Center for the Study of Natural Hazards and Disasters; and Executive Director of Department of Homeland Security’s Center of Natural Disasters, Coastal Infrastructure and Emergency Management.

Linda Sorrento is the Director of Education Partner Development for the U.S. Green Building Council, Washington, DC.

Jason Sowell is Assistant Professor of Landscape Architecture at the University of Texas at Austin School of Architecture.

Ellis Stanley, CEM, is Director of Western Emergency Management Services at Dewberry, Inc.

Frederick Steiner, FASLA, is the dean of the School of Architecture and Henry M. Rockwell Chair in Architecture, University of Texas at Austin. He is President-Elect of the National Academy of Environmental Design.

Kim Tanzer is the Dean and Edward E. Elson Professor of Architecture at the University of Virginia. She is the current President of the National Academy of Environmental Design.

Deborah Thomas is Associate Professor of Geography and Environmental Sciences at the University of Colorado-Denver, and Co-director of the UCD Tanzania Field School.

J. Phillip Thompson is Associate Professor in the Department of Urban Studies and Planning at the Massachusetts Institute of Technology.

L. Thomas Tobin is President of the Earthquake Engineering Research Institute.

J. David Waggonner III, FAIA, is a principal in Waggonner & Ball Architects in New Orleans.

Darlene Sparks Washington, D.P.M., is an Independent Consultant in the fields of disaster emergency preparedness and public health preparedness offering clients assistance in educating and training individuals, families, communities and businesses.

Nichole Weidemann is Associate Professor of Architecture and the Associate Dean for Undergraduate Programs at School of Architecture at the University of Texas at Austin.

Dennis Wenger is Program Director of the Infrastructure Management and Hazard Response in the Civil, Mechanical and Manufacturing Innovation Division of the National Science Foundation

James L. Wescoat, Jr. is Aga Khan Professor of Islamic Architecture at the Massachusetts Institute of Technology.