

D I S A S T E R

R E S E A R C H

C E N T E R

1998 Annual Report



Newark, Delaware, USA

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Disaster Research Center Personnel

Research Staff

*Joanne M. Nigg, Co-Director
Kathleen J. Tierney, Co-Director
Russell R. Dynes, Research Professor
E. L. Quarantelli, Research Professor
James M. Dahlhamer, Field Director*

Office Coordinator

Mary Ann Brown

Library Coordinator

Susan J. Castelli

Postdoctoral Research Fellows

*James M. Dahlhamer
Jasmin Riad
Gary R. Webb*

Graduate Research Assistants

*Michael Antonio
Michael Broderick
Marcia Cavanaugh
Kathleen Curry
Nicole Mott
Lisa Reshaur
Cassandra Rousonelos
Angela Tweedy
Tricia Wachtendorf*

Undergraduate Research Aides

***Nicole Boudreau
Kelly Connolly
Nathaniel Davis
Shannon Dawson
Traci Diablo
Justin Dolcimascolo
Rachel Eskow
Amy Hoffman
Amy Huang
Nicholas Kondraschow
Raymond Lloyd***

***Sharon Malachi
Jennifer Mason
Jill Millman
Sandra Nicholas
Pam Pezzoli
Linda Pocium
Emily Pope
Kimberly Sainson
Myra Scurfield
Adena Sherman
Amy Smyth***

Resource Collection Staff

***Christine Bush
Sean Callahan
Makeeva Charles
Leah DeLoach***

***Kelly Krawczyk
Leigh Shrewsbury
Kathryn Walker***

1998 Publications

Books and Monographs

Nigg, Joanne M. (Ed.)

The Loma Prieta, California, Earthquake of October 17, 1989 – Recovery, Mitigation, and Reconstruction. U.S. Geological Survey Professional Paper 1553-D.
Washington, DC: U.S. Government Printing Office.

Quarantelli, E.L. (Ed.)

What is a Disaster? Perspectives on the Question. New York, NY: Routledge.

Articles and Book Chapters

Dahlhamer, James M. and Kathleen J. Tierney

“Rebounding from Disruptive Events: Business Recovery Following the Northridge Earthquake.” Pp. 121-141 in Sociological Spectrum, Volume 18.

Dynes, Russell R.

“Coming to Terms with Community Disaster.” Pp. 109-126 in E.L. Quarantelli (ed.) What is a Disaster? Perspectives on the Question. New York: Routledge.

“On the Concept of Disaster: A Response, A Slight Recovery and Less Reconstruction.” Pp. 219-221 in E.L. Quarantelli (ed.) What is a Disaster? Perspectives on the Question. New York: Routledge.

Lee, George C., Thomas O'Rourke, Masanobu Shinozuka and Kathleen J. Tierney

“Developing Urban Reconstruction Strategies From Northridge and Kobe Earthquake Studies.” Pp. 112-118 in Proceedings of the NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994, Volume IV.
Richmond, California: California Universities for Research in Earthquake Engineering.

Nigg, Joanne M.

"Emergency Response Following the Northridge Earthquake: Intergovernmental Coordination Issues." Pp. 245-251 in Proceedings of The NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994, Volume IV. Richmond, California: California Universities for Research in Earthquake Engineering.

Quarantelli, E. L.

"Introduction: The Basic Question, Its Importance, and How It Is Addressed in This Volume." Pp. 1-8 in E.L. Quarantelli (ed.) What Is a Disaster? Perspectives on the Question. New York: Routledge.

"Epilogue: Where We Have Been and Where We Might Go." Pp. 234-273 in E.L. Quarantelli (ed.) What is a Disaster? Perspectives on the Question. New York: Routledge.

"Possibilities and Problems in Developing a Global Disaster Information Network (GDIN)." Pp. 425-439 in The Proceedings of the World Urban-Earthquake Conference in Fukui. Fukui City.

"Foreword." Pp. xi-xii in Boris Porfiriev (ed.), Disaster Policy and Emergency Management in Russia. New York: Nova Science Publishers.

Tierney, Kathleen J.

"Research Overview: Emergency Response." Pp. 9-15 in Proceedings of The NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994, Volume IV. Richmond, California: California Universities for Research in Earthquake Engineering.

"How Will Social Science Help Us Deal With Earthquakes?" In Proceedings of the 50th Annual Meeting of the Earthquake Engineering Research Institute. Oakland, California: Earthquake Engineering Research Institute.

Tierney, Kathleen J. and James M. Dahlhamer

"Business Disruption, Preparedness and Recovery: Lessons from the Northridge Earthquake." Pp. 171-178 in Proceedings of the NEHRP Conference and Workshop on Research on the Northridge, California Earthquake of January 17, 1994, Volume IV. Richmond, California: California Universities for Research in Earthquake Engineering.

"Earthquake Vulnerability and Emergency Preparedness Among Businesses." Pp. 53-72 in M. Shinozuka, A. Rose and R.T. Eguchi (eds.) Engineering and Socioeconomic Impacts of Earthquakes: An Analysis of Electricity Lifeline Disruptions in the New Madrid Area. Buffalo, New York: Multidisciplinary Center for Earthquake Engineering Research.

Book Reviews

Dahlhamer, James M.

Perestroika's Effects on Natural Disaster Response in the Soviet Union, 1985-90 by Holly M. Strand. Pp. 107-108 in the International Journal of Mass Emergencies and Disasters, Volume 16.

Technical Reports

Nigg, Joanne M., Jasmin Riad, Tricia Wachtendorf, Angela Tweedy and Lisa Reshaur

Executive Summary. Disaster Resistant Communities Initiative: Evaluation of the Pilot Phase. Year I. Technical Report Series. Newark, DE: Disaster Research Center, University of Delaware, September.

Dissertations

Dahlhamer, James M.

"Rebounding From Environmental Jolts: Organizational and Ecological Factors Affecting Business Disaster Recovery."

Reshaur, Lisa M.

"Collective Violence and Theories of Collective Behavior: An Analysis of the 1992 Los Angeles Unrest."

Webb, Gary R.

"Role Enactment in Disaster: Reconciling Structuralist and Interactionist Conceptions of Role."

Academic Presentations

Dahlhamer, James M.

"Adapting to Environmental Jolts: Organizational and Ecological Determinants of Business Recovery Following the Northridge Earthquake." Presentation at the 70th Annual Meeting of the Eastern Section of the Seismological Society of America, Millersville, Pennsylvania, October 18-20.

Dynes, Russell R.

"Noah and the Flood: An After-Action Report." Presentation at the Research Add-On Conference, 23rd Annual Hazards Research and Applications Workshop, Boulder, CO, July 15.

"Comments on Drabek and Other Encyclopedists." Presentation at the 14th World Congress of Sociology, Montreal, Quebec, Canada, July 26.

"The Lisbon Earthquake in 1755: Contested Meanings in the First Modern Disaster." Presentation at the 14th World Congress of Sociology, Montreal, Quebec, Canada, July 28.

Nigg, Joanne M.

"Cultural Attitudes Toward Disasters." Seminar Series on the Environment, Johns Hopkins University, April 28.

"Warning and Disaster Information Systems: User Perspectives." Presentation to the Board on Natural Disasters, National Academy of Sciences, Washington, DC, June 22.

"Mitigation Actions at the Local Level: A U.S. National Assessment," co-authored with Donald E. Geis and Kendra Briechele. Presentation at the World Congress of Sociology, Montreal, Quebec, Canada, July 26-August 1.

"The Issuance of Earthquake Predictions': Scientific Approaches and Public Policy Strategies." Discussion paper at the Workshop on Prediction in the Earth Sciences: Use and Misuse in Policy Making, Estes Park, CO, September 10-12.

Quarantelli, E. L.

"Reducing the Negative Affects of Disaster." Presentation at the State of the World Forum, Monterrey, Mexico, January 28.

"The Proposed Establishment of a Global Disaster Information Network (GDIN): The Social Dimensions Involved." Presentation at Risk and Sustainability: Contemporary Issues in Risk Management, Durham University, England, May 26.

"More and Worse Disasters in the Future." Presentation at the Instituto Pedagogico de Caracas, Venezuela, June 7.

"Myth and Realities of Crisis Management." Presentation at the Primeras Jornadas "Sociedad y Desastres" Conference, Funvisis, Caracas, Venezuela, June 8.

"Criteria in Evaluating Management of Community Disasters." Presentation at the Primeras Jornadas "Sociedad y Desastres" Conference, Funvisis, Caracas, Venezuela, June 8.

"Perspective on Future Disasters." Presentation at the meeting at the Safety and Environment Department of Petroleos de Venezuela, PDVSA, Caracas, Venezuela, June 12.

"Delivery of Emergency Medical Services in Disasters." Presentation at the World Urban-Earthquake Conference in Fukui, Fukui City, Japan, June 27.

"Similarities and Differences Between Japanese and American Societies Which Will Affect International Cooperation Among Cities in a Disaster Situation." Presentation at the World Urban-Earthquake Conference in Fukui, Fukui City, Japan, June 28.

"Famines: Are They Disasters or Something Else?" Presentation at the World Congress of Sociology, Montreal, Canada, July 31.

"The Computer-Based Information and Communication Revolution: A Dozen Problematical Issues and Questions They Raise for Disaster Planning and Managing." Presentation at the Conference on The Challenge of Major Hazards at the Start of the New Millenium, Florence, Italy, November 4.

Riad, Jasmin K.

"Disaster Research." Presentation at the Central and Southern Appalachian Workshop on Climate Variability and Change, Morgantown, WV, May 28.

Riad, Jasmin K. and Tricia Wachtendorf

“Project Impact Evaluation Methodology.” Presentation at the Research Add-On Conference, Natural Hazards Workshop, Boulder, CO, July 16.

Tierney, Kathleen J. and Ernest Sternberg

“Planning for Robustness and Resilience: The Northridge and Kobe Earthquakes and Their Implications for Post-Disaster Recovery.” Paper presented at US-Japan Workshop on Postdisaster Recovery, Newport Beach, CA, August 24-25.

Wachtendorf, Tricia

“A River Runs Through It: Cross Border Interaction During the 1997 Red River Flood.” Presentation at the 14th World Congress of Sociology, Montreal, Quebec, Canada, July 27.

Presentations to Governmental Bodies And Professional Organizations

Dahlhamer, James M.

"Disaster Impacts on the Private Sector: Pitfalls and Prospects for Business/VOAD Partnerships." Invited presentation at the Seventh Annual VOAD Leadership Conference, Atlantic City, NJ, October 28-30.

"Learning From Earthquake Reconnaissance Training: Societal Impacts and Emergency Response." Invited presentation at the EERI Earthquake Reconnaissance Training Workshop, St. Louis, MO, November 3.

"Learning From Earthquake Reconnaissance Training: Societal Impacts and Emergency Response." Invited presentation at the EERI Earthquake Reconnaissance Training Workshop, Los Angeles, CA, November 10.

Dynes, Russell R.

"Disasters in the 21st Century." Keynote Address at the Institute of Civil Defense and Disaster Studies, Diamond Jubilee, Belfont Lake, Feldham, Middlesex, England, October 22.

Nigg, Joanne M.

"The Formation of Voluntary and Corporate Partnerships: Issues that Need to be Addressed." Keynote presentation for the Annual Meeting of the Board of the National Voluntary Organizations Active in Disaster, Washington, DC, March 17.

"Lessons Learned from Project Impact Disaster Resistant Communities - Year I." Presentation to the Mitigation Directorate and Regional Directors on findings from DRC Research on Project Impact, Washington, DC, December 8.

Tierney, Kathleen J.

“How Will Social Science Help Us Deal with Earthquakes?” Invited plenary presentation at the annual meeting of the Earthquake Engineering Research Institute, San Francisco, CA, February 5-7.

“A Social Science Perspective on Loss Reduction: What do We Need to Know, and How Can Social Science Help?” Presentation at the Fourth Public-Private Forum on Reducing Disaster Losses, Washington, DC, February 23.

“The Field Turns Fifty: Social Change and the Practice of Disaster Field Work.” Invited presentation at the annual Natural Hazards Workshop Research Add-On Session, Boulder, CO, July 15-16.

Webb, Gary R.

“The Popular Culture of Disaster: What is It and Why is It Important?” Paper presented to the Emergency Information Infrastructure Partnership Virtual Classroom, October 21.

Disaster-Related Academic Activities

Castelli, Susan J.

Member. Earthquake Information Providers Group (EQIP).

Dynes, Russell R.

Reviewer. Omega, Journal of Contingencies and Crises Management, American Sociological Review, National Science Foundation.

Nigg, Joanne M.

Member. Board on Natural Disasters, National Academy of Sciences/National Research Council, 1996-present.

Member. Committee on Future Roles, Challenges, and Opportunities for the U.S. Geological Survey. National Academy of Sciences/National Research Council.

Member. Research Committee, Multidisciplinary Center for Earthquake Engineering Research Center, 1997-present.

Session Chair. "Socio-Economic and Policy Issues," EERI's Sixth National Conference on Earthquake Engineering, Seattle, WA, June 1-6.

Reviewer. Proposed papers in the social sciences for the 12th World Congress on Earthquake Engineering to be held in New Zealand in 2000 (11 proposals reviewed).

Quarantelli, E. L.

Participant. Cities and Megacities at Risk: Third Forum on Public Policy Issues in Natural Disaster Reduction, Washington, DC, January 26.

Participant. A Global Perspective on Reducing Losses from Natural Disasters. PPP 2000 Forum 5, Washington, DC, April 14.

Chair. "Stream I Papers on Disasters." Conference on Risk and Sustainability: Contemporary Issues in Risk Management, Durham University, England, May 27.

Discussant. Seminar on the Complicated Nature of Psychological and Mental Health Problems in Disasters, Aula Sesmica, Funvisis, Caracas, Venezuela, June 11.

Chair. Roundtable Discussion on "What Is a Disaster? Continuing the Dialogue," 14th World Congress of Sociology, Montreal, Quebec, Canada, July 29.

Chair. "How Is Information Technology Used in Disaster Management?" Session at the Conference on The Challenge of Major Hazards At the Start of the New Millenium, Florence, Italy, November 6.

Tierney, Kathleen J.

Reviewer. Papers on Socioeconomic Aspects of Earthquakes. Sixth U.S. National Conference on Earthquake Engineering.

Reviewer. Manuscripts for Risk Analysis, Disasters, American Journal of Sociology, Gender and Society, Social Psychology Quarterly.

Proposal Reviewer. National Science Foundation.

Member. Technical Advisory Committee. Project on Managing Catastrophic Risk. The Wharton School, University of Pennsylvania.

Member. Research Committee. Multidisciplinary Center for Earthquake Engineering Research (NSF Research Center headquartered at SUNY-Buffalo).

Member. Leadership Team. Mid-American Earthquake Center (NSF Research Center headquartered at University of Illinois Urbana-Champaign).

Webb, Gary R.

Discussant. Roundtable Discussion on "What is A Disaster? Continuing the Dialogue," 14th World Congress of Sociology, Montreal, Quebec, Canada, July 26- August 1.

Presider/Discussant. Session on Social Movements at the Annual Meeting of the Eastern Sociological Society, Philadelphia, PA, March 19-22.

Other Disaster-Related Professional Activities

Nigg, Joanne M.

President. Earthquake Engineering Research Institute.

Member. Editorial Advisory Board, International Journal of Risk Management.

Member. Editorial Board, Journal of Seismology and Earthquake Engineering.

Member. Editorial Board, Kluwer Academic Publishers new book series, Advances in Natural and Technological Hazards Research.

Tierney, Kathleen J.

Member. Editorial Board, Earthquake Spectra.

Webb, Gary R.

Session recorder. Session on New Efforts in Earthquake Research at the 23rd Annual Hazards Research and Applications Workshop, Boulder, CO, July 13.

Interviewer. The Oral History of Disaster Research Project, E.L. Quarantelli, University of Delaware, Principal Investigator.

Contracts and Grants

Continuing

Businesses and Disasters: Consequences of Disaster Victimization For Businesses and Business Districts National Science Foundation	\$ 249,595
Disaster Resistant Communities Initiative: Evaluation of Pilot Phase Federal Emergency Management Agency	\$ 159,946

New

Perceptions of Earthquake Impacts and Loss-Reduction Policy Preferences Among Community Residents and Opinion Leaders National Science Foundation	\$ 325,608
Estimating Earthquake-Induced Business Losses Multidisciplinary Center for Earthquake Engineering Research	\$ 70,000
Rehabilitation Incentives and Impediments Multidisciplinary Center for Earthquake Engineering Research	\$ 85,000

Disaster Research Center Field Studies

*January 31-
February 7*

Santa Cruz County, California

April 4-10

Wilmington, North Carolina

May 6-12

Oakland, California

May 16-22

Pascagoula, Mississippi

May 31-June 9

Seattle, Washington

June 3-7

Dade County, Florida

June 22-30

Deerfield Beach, Florida

July 19-31

*Allegany County, Maryland
Randolph and Tucker Counties, West Virginia*

November 14-21

Dade County, Florida

Visitors to DRC

Australia

*School of Psychology and Sociology
James Cook University of North Queensland*

England

Coventry University, Gloucestershire

India

*Centre for the Study of Administration of Relief
New Delhi*

New Zealand

*Emergency Management & Civil Defence
Wellington*

The Netherlands

*Berenschot
Utrecht*

U.S.A.

*The Wharton School
University of Pennsylvania*

*Eastern Panhandle Regional Planning and
Development Council
Martinsburg, WV*

*Center for Humanities
Wesleyan University, CT*

*National Science Foundation
Washington, DC*

*Department of Decision Sciences and Engineering Systems
Rensselaer Polytechnic Institute
Troy, NY*

*School of Architecture & Planning
State University of New York at Buffalo*

*Department of Sociology/Anthropology
Millersville University*

New Preliminary Papers

Dynes, Russell R.

"Dealing with Disaster in the 21st Century"

"Comments on Drabek and Other Encyclopedists"

"Seismic Waves in Intellectual Currents: The Uses of the Lisbon Earthquake in 18th Century European Thought"

"Noah and Disaster Planning: The Cultural Significance of The Flood Story"

Nigg, Joanne M.

"The Issuance of Earthquake 'Predictions' : Scientific Approaches and Public Policy Strategies"

Nigg, Joanne M., Donald E. Geis and Kendra Briechele

"Mitigation Actions at the Local Level: A U.S. National Assessment"

Quarantelli, E.L.

"The Proposed Establishment of a Global Disaster Information Network (GDIN): The Social Dimensions Involved"

"Disaster Recovery: Research Based Observations on What It Means, Success and Failure, Those Assisted and Those Assisting"

"The Computer Based Information/Communication Revolution: A Dozen Problematical Issues and Questions They Raise for Disaster Planning and Managing"

"Major Criteria for Judging Disaster Planning and Managing Their Applicability in Development Societies"

Riad, Jasmin K. and F.H. Norris

"Hurricane Threat and Evacuation Intentions: An Analysis of Risk Perception, Preparedness, Social Influences, and Resources"

Tierney, Kathleen J.

"How Will Social Science Help Us Deal With Earthquakes?"

"The Field Turns Fifty: Social Change and the Practice of Disaster Field Work"

Webb, Gary R.

"The Popular Culture of Disaster: What is It and Why is it Important?"