
DISASTER
RESEARCH
CENTER

1997 Annual Report

*University of Delaware
Newark, Delaware, USA*

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DRC 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

Jeannette M. Kaznica

Library Coordinator

Susan J. Castelli

Graduate Research Assistants

Michael Broderick
Heather Dillaway
Melvin D'Souza
Matt Lee
Jasmin Riad
Lisa Reshaur
Tricia Wachtendorf
Gary Webb

Research Aides

Jennifer Baker
Adrienne Bernknopf
Nicole Boudreau
Justin Dolcimascolo
Rachel Eskow
Ami Hoffman
Caryn Klaff
Brian Ladman
Raymond Alan Lloyd
Pam Pezzoli
Amy Smyth

Resource Collection Staff

Christine Bush
Chris Cornell
Danielle Disporto
Jessica Groce
Kelly Krawczyk

Kathleen Mahanna
Craig Miller
Melissa Rabey
Valerie Tata

1997 Publications

Articles and Book Chapters

Dahlhamer, James M. and Melvin J. D'Souza

"Determinants of Business Disaster Preparedness in Two U.S. Metropolitan Areas." International Journal of Mass Emergencies and Disasters 15(2): 265-281.

Nigg, Joanne M.

"The Societal Context for Lifeline Policies." Pp. 29-32 in Report on the Lifeline Policymakers Workshop. Washington, DC: NIST/ICSSC.

"Earthquake Response: Intergovernmental Structure and Policy Innovation" co-authored with Richard K. Eisner. Pp. 3-12 in Proceedings: 5th United States/Japan Workshop on Urban Earthquake Hazard Reduction. Publication 94-A. Oakland, CA: Earthquake Engineering Research Institute.

Quarantelli, E. L.

"Non-medical Difficulties During Emergency Medical Services Delivery at the Time of Disasters." BC Medical Journal 39 (1997) 593-595.

"Problematical Aspects of the Information/Communication Revolution For Disaster Planning and Research: Ten Non-Technical Issues and Questions." Disaster Prevention and Management, 6 (1997) 94-106.

"Ten Criteria for Evaluating the Management of Community Disasters." Disasters, 21 (1997) 39-56.

"The Disaster Research Center Field Studies of Organized Behavior in the Crisis Time Period of Disasters." International Journal of Mass Emergencies and Disasters, 15 (1997) 47-69.

Tierney, Kathleen J.

"Business Impacts of the Northridge Earthquake." Journal of Contingencies and Crisis Management, Vol. 5, No. 2, (June): 87-97.

"Business Impacts and Recovery Following the Northridge Earthquake." Pp. 431-434 in Proceedings of the 5th United States/Japan Workshop on Urban Earthquake Hazard Reduction, Pasadena, California.

"Impacts of Recent Disasters on Business: The 1993 Midwest Floods and the 1994 Northridge Earthquake." Pp. 189-222 in Barclay Jones (ed.) Economic Consequences of Earthquakes: Preparing for the Unexpected: Perspectives on Mitigating the Impact of Earthquakes on the Economy. State University of New York at Buffalo, National Center for Earthquake Engineering Research. Report No. NCEER-SP-0001.

Other Publications

Nigg, Joanne M.

"Research Needs for Improving Earthquake Hazard Reduction." Pp. 123-139 in U. S. Congress House Subcommittee on Basic Research, Committee on Science. Hearing on the National Earthquake Hazards Reduction Program. 105th Congress, First Session, No. 15.

Technical Reports

Nigg, Joanne M.

"Societal Issues Related to Steel Moment Frame Buildings." Background paper for the Social, Economic, Policy and Political Issues Workshop of the SAC Project (sponsored by FEMA), San Francisco, CA, October 27-28, 1997.

"Guidance for Guideline Writers: Issues for Consideration." Background paper for the Social, Economic, Policy and Political Issues Workshop of the SAC Project (sponsored by FEMA), San Francisco, CA October 27-28, 1997.

Academic Presentations

Dahlhamer, James M.

"New Needs in Business Recovery: Links with Mitigation." 22nd Annual Workshop on Hazards Research and Applications, Denver, Colorado, July 13-16.

Dahlhamer, James M. and Kathleen J. Tierney

"Winners and Losers: Predicting Business Outcomes Following the Northridge Earthquake." Paper presented at the Annual Meeting of the American Sociological Association, Toronto, August 9-13.

Dynes, Russell R.

Reactions to the "Assessment of Research and Applications for Natural Hazards." 22nd Annual Workshop on Hazard Research and Applications, Denver, CO, July 15.

Nigg, Joanne M.

"The Social Impact of Physical Processes: Acts of God or Human Failures?" Invited lecture, Center for Earth Science Information Research, Stanford University, June 4.

"The Issuance of Earthquake 'Predictions': Scientific Approaches and Public Policy Strategies." Paper presented at the Workshop on Prediction in the Earth Sciences: Use and Misuse in Policy Making, Boulder, CO, July 10-12.

"Emergency Response Following the 1994 Northridge Earthquake: Intergovernmental Coordination Issues." Presentation at the Northridge Earthquake Research Conference (sponsored by NSF), Los Angeles, CA, August 20-22.

"Intergovernmental Coordination in the Northridge Earthquake: The Local Perspective." Presentation at NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 18-20.

Nigg, Joanne M. and Richard K. Eisner

"Earthquake Response: Intergovernmental Structure and Policy Innovation." Keynote paper presented at the 5th U.S.-Japan Workshop on Urban Earthquake Hazard Reduction, Pasadena, California, January 15-17.

Quarantelli, E. L.

"Research Based Criteria for Evaluating Disaster Planning and Managing." International Seminar on Chernobyl and Beyond: Humanitarian Assistance to Victims of Technological Disasters, Moscow, Russia, May 27.

"Necessary Future Social Science Research on Disasters." 4th International Conference, Emergency 1997: Environmental Aspects of Disasters, Prague, The Czech Republic, Oct. 22.

Tierney, Kathleen J.

"Overview: Emergency Response." Presentation at the Northridge Earthquake Research Conference (sponsored by NSF), Los Angeles, CA, August 20-22.

Tierney, Kathleen J. and James M. Dahlhamer

"Business Disruption, Preparedness, and Recovery: Lessons From the Northridge Earthquake." Presentation at the Northridge Earthquake Research Conference (sponsored by NSF), Los Angeles, CA, August 20-22.

Webb, Gary R.

"State Theory and Auto Safety: A Look at Mandatory Seat Belt Laws." Invited presentation to the First Annual Legal Studies Workshop, University of Delaware, Newark, DE, October 29.

"Working with Disaster Archives: Theoretical and Methodological Payoffs and Issues." Presentation at the 22nd Annual Natural Hazards Research and Applications Workshop, Denver, CO, July 13-16.

Presentations To Governmental Bodies And Professional Organizations

Dynes, Russell R.

"Essentials of Planning." Seminar on Emergency Planning and Response, Ministry of Environment, Singapore, US/Asian Environmental Partnership Program, June 3.

"Emergency Response Planning." Seminar on Emergency Planning and Response, Ministry of Environment, Singapore, US/Asian Environmental Partnership Program, June 4.

"Warning Systems." Seminar on Emergency Planning and Response, Ministry of Environment, Singapore, US/Asian Environmental Partnership Program, June 5.

Nigg, Joanne M.

"The Disastrous Social Effects of Lifeline Disruption." Invited keynote presentation to the ASCE Lifeline Policymakers Workshop, Washington, DC, January 23.

Expert Witness. Testimony on the National Earthquake Hazard Reduction Program before the U. S. House of Representatives' Committee on Science, Subcommittee on Basic Research, April 24.

"Problems with Disaster Preparedness and Recovery Guidance to the Private Sector." Invited paper presented at the 75th Annual Meeting of the Alliance of American Insurers, San Diego, California, May 4-6.

Academic Activities

Dynes, Russell R.

Observer. The Global Disaster Information Network (GDIN) Workshop, McLean, Virginia, July 22-24.

Organizer and Presider. "Disaster in Comparative Context." Special Session at the Annual Meeting of the American Sociological Association, Toronto, Ontario, Canada, August 11.

Nigg, Joanne M.

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

Representative. AAAS Section K (Social, Economic and Political Science) on the ASA-AAAS Relations Committee (appointed by the ASA Council).

Member. Steering Committee, 6th U.S./Japan Workshop in Urban Earthquake Hazard Reduction, Los Angeles, California, January 15-17.

Moderator. "New Needs in Recovery: Links with Mitigation." Panel at the 22nd Annual Hazards Research and Applications Workshop, Denver, CO, July 13-16.

Moderator. Social Sciences and Emergency Management research summary presentations, Northridge Earthquake Research Conference, Los Angeles, CA, August 20-22.

Chair. Emergency Response Session, Northridge Earthquake Research Conference, Los Angeles, CA, August 20-22.

Member. Project Review Panel, NSF-funded project, "Enabling the Next Generation of Hazard Researchers: An Education and Training Proposal," located at the Hazard Reduction and Recovery Center at Texas A&M University.

Quarantelli, E. L.

Observer. The Global Disaster Information Network (GDIN) Workshop, McLean, Virginia, July 22-24.

Moderator. Forum #1, PPP2000, National Disaster Reduction Initiative of the Insurance Sector, Washington, DC, Sept. 10.

Participant. United States-Peoples Republic of China Protocol Meeting, Menlo Park, California, October 3.

Tierney, Kathleen J.

Subgroup Leader. Emergency Preparedness and Response, Second Assessment of Research on Natural Hazards, sponsored by the National Science Foundation. Dennis S. Mileti, Principal Investigator.

Member. Technical Advisory Committee, Project on Managing Catastrophic Risk, Wharton Risk Management/Decision Processes Center, The Wharton School, University of Pennsylvania.

Co-Organizer. Roundtable Sessions, Eastern Sociological Society Annual Meeting, Baltimore, MD.

Discussant. Session on Social Movements: Mobilization and Change, Annual Meeting of the Eastern Sociological Society, Baltimore, MD, April 10-13.

Other Professional Activities

Dahlhamer, James M.

Session Recorder. NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment. Wilmington, Delaware, September 18-20.

Nigg, Joanne M.

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

Member. Speakers Pool for Post-Earthquake Congressional Briefings. Organized for FEMA by EERI.

Chair. Advisory Group on Disaster Resistant Communities, International City/County Managers Association, funded by FEMA.

President. Earthquake Engineering Research Institute.

Member. "Earthquakes and Ethics" Committee, Earthquake Engineering Research Institute.

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

Member. Editorial Board, *Journal of Seismology and Earthquake Engineering* (responsible for socio-economic issues).

Session Chair. NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 18-20.

Quarantelli, E. L.

Session Chair. "Uses of New Technologies in Disaster Management". NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 19.

Member. International Scientific Advisory Committee, 1st International Conference, Risk Analysis 98 (Computer Simulations in Risk Analysis and Hazard Mitigation) in Spain.

Member. Scientific Advisory Board, 4th International Conference, Emergency 1997: Environmental Aspects of Disasters.

Tierney, Kathleen J.

Organizer. NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 18-20.

Guest Speaker. National Public Radio, "Talk of the Nation--Science Friday," featuring discussion on risk-related issues, February 21.

Grant Recipient. Japan Society for the Promotion of Science Short-Stay Travel Award, March.

Member. Editorial boards of Gender and Society and Earthquake Spectra.

Wachtendorf, Tricia L.

Invited Participant. "Risk and Society Roundtable: The Red River Flood and Natural Hazards Mitigation Policy" sponsored by the Canadian National Committee for the International Decade For Natural Disaster Reduction, Adolphe, Manitoba, Canada, October 8.

Session Recorder. NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 18-20.

Webb, Gary R.

Session Recorder. NCEER-INCEDE Workshop on Emergency Information, Emergency Management, and Rapid Damage Assessment, Wilmington, Delaware, September 18-20.

Observer. The Collective Action Project--Promise Keepers Rally. Clark McPhail, University of Illinois at Urbana-Champaign, and John D. McCarthy, The Catholic University of America, Co-Principal Investigators, Washington, DC, October 4.

Contracts And Grants

Continuing

Business Disruption and Recovery: Research Integration
National Center for Earthquake Engineering Research \$ 65,000

**Businesses and Disasters: Consequences of Disaster
Victimization For Businesses and Business Districts**
National Science Foundation \$ 249,595

New

**Disaster Resistant Communities Initiative:
Evaluation of Pilot Phase**
Federal Emergency Management Agency \$ 59,964

**Organizational and Social Aspects in the Use of New
Information Technologies for Disaster Planning and
Management**
Mitre Corporation \$ 24,974

DRC is also a core member of a research consortium headed by the State University of New York at Buffalo, which received a 5-year \$10 million grant from the National Science Foundation to conduct interdisciplinary research on earthquake loss reduction.

DRC Field Studies

*March 31-
April 7*

Santa Cruz County, California

June 4

Grand Forks, North Dakota

Visitors To DRC

Canada

School of Journalism
Carleton University, Ontario

Italy

University of Bologna
Department of Sociology, Bologna

Japan

Department of Psychology
Kobe University, Kobe

International Center for
Disaster-Mitigation Engineering
Institute of Industrial Science
University of Tokyo, Tokyo

Department of Sociology
Toyo University

Korea

Seoul University, Seoul

Mexico

Contemporary Disasters Program
Centre for Research and Advanced Studies
In Social Anthropology, Mexico City

U.S.A.

Division of Political Science & Criminal Justice
California State University, Fullerton

School of Public Administration and
Department of Sociology
University of Southern California, Los Angeles

Department of Health and Social Services
Division of State Service Centers
State of Delaware, Wilmington

Office of Research & Development (ORD)
Central Intelligence Agency
Washington, DC

Institute for National Strategic Studies
Department of Defense
Washington, DC

Space and High Technology Practice
Peat Marwick, Washington, DC

Department of Sociology
Rutgers University, New Brunswick, NJ

Department of Geology
Queens College, Flushing, NY

Additions To DRC Publications List

Preliminary Papers

Dynes, Russell R.

“Coming to Terms with Community Disaster and On the Concept of Disaster: A Response, A Slight Recovery and Less Reconstruction”

“Comments on the Second Assessment of Research and Applications on Natural Hazards”

“The Lisbon Earthquake in 1755: Contested Meanings of the First Modern Disaster”

Dynes, Patrick and Russell R. Dynes

“Financial Crises in the Context of Disaster Theory: Recent U. S. Case Studies”

Nigg, Joanne M.

“Emergency Response Following the 1994 Northridge Earthquake: Intergovernmental Coordination Issues”

Nigg, Joanne M. and Dennis Mileti

“Natural Hazards and Disaster”

Quarantelli, E. L.

“Research Based Criteria for Evaluating Disaster Planning and Managing”

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

"The Disaster Research Center (DRC) Field Studies of Organized Behavior in the Crisis Time Period of Disasters"

"Future Disaster Trends: Implications for Programs and Policies"

"Establishing a Global Disaster Information Network (GDIN): Problematical Aspects"

Stallings, Robert A.

"Sociological Theory and Disaster Studies"

Tierney, Kathleen J.

"Research Overview: Emergency Response"

Tierney, Kathleen J. and James M. Dahlhamer

"Business Disruption, Preparedness and Recovery: Lessons from the Northridge Earthquake"

Tierney, Kathleen J. and J. D. Goltz

"Emergency Response: Lessons Learned from the Kobe Earthquake"