

93.A5.1990

THE 1990 ANNUAL REPORT
OF THE
DISASTER RESEARCH CENTER

University of Delaware

Newark, Delaware USA, 19716

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PUBLICATIONS

Books or Monographs:

Dynes, Russell R., E. L. Quarantelli, and Dennis Wenger

Individual and Organizational Response to the 1985 Earthquake in Mexico City, Mexico. (Newark, DE: Disaster Research Center, University of Delaware).

Articles and Book Chapters:

Dynes, Russell R., E. L. Quarantelli and Dennis Wenger

"Is the Incident Command System a Plan For All Seasons and Emergency Situations?" Hazard Monthly 10(March):8-9, 12.

Quarantelli, E. L.

"Worse to Come--But Grounds for Hope." Disaster Management (March):2.

"Thirty Years of Catastrophe Research." In Patrick Lagadec, States of Emergency: Technological Failures and Social Destabilization. (London: Butterworth-Heinemann):222-231.

"Disaster Prevention and Mitigation in Lada: Problems and Options in Planning and Implementing in a Composite Country." Colloquium on the Environment and Natural Disaster Management Draft Papers. (Washington, DC: Environmental Department, World Bank):Tab 8:1-29.

Technical Reports and Proceedings:

Nigg, Joanne M.

"Effective Knowledge Dissemination for Research Utilization." First National Conference Proceedings: DPC 2000. (Arlington, VA: American Disaster Preparedness Association) April:108-122.

ACADEMIC PRESENTATIONS

Dynes, Russell R.

"Community Emergency Planning." Disasters and the Small Dwelling: Defining an International Agenda for the IDNDR, Oxford, United Kingdom, September 2-6.

"Socio-Cultural and Behavior Context of Disaster." Disasters and the Small Dwelling Conference, Disaster Management Center, Oxford Polytechnic, Headington, United Kingdom, September 3.

"Human Response in Disasters." Oak Ridge Associated Universities, Oak Ridge, TN, October 31.

Nigg, Joanne M.

"Opportunities to Reduce Earthquake Hazards: Are the Benefits Worth the Costs?" Paper presented at Annual Meeting of the AAAS, New Orleans, LA, February 18.

"A Comparison of Two Communities: Lifeline Disruption Due to Hurricane Hugo." Paper presented at NSF-sponsored workshop, Hurricane Hugo: Six Months After, University of Puerto Rico, Mayaguez, March.

Nigg, Joanne M. and Kathleen J. Tierney

"Explaining Differential Outcomes in the Small Business Disaster Loan Application Process." Paper presented at ISA World Congress of Sociology, Madrid, Spain, July.

Quarantelli, E. L.

"The 1985 Mexico City Earthquake: A Summary of Research Findings on Organizational and Citizen Responses to the Disaster." National Center for Earthquake Engineering Research Seminar, Buffalo, NY, May 15.

"Buffalo Creek Revisited in Xenia: A Comparison of Mental Health Effects." Twelfth World Congress of Sociology, Madrid, Spain, July 11.

Tierney, Kathleen J.

Organizer and presider, session on "Collective Behavior and Social Movements," Pacific Sociological Association Annual Meeting, Spokane, WA, April 5-7.

Guest Lecture, "Disaster Research." Course on Emergency Medicine, Johns Hopkins University School of Medicine and Public Health, Baltimore, MD, May 16.

PRESENTATIONS TO GOVERNMENTAL BODIES AND PROFESSIONAL ORGANIZATIONS

Bourdess, Timothy

"Evacuation: Lessons from the Literature." Emergency Managers Monthly Meeting, West Chester, PA, December 6.

Dynes, Russell

"The Meaning of Disaster." University by the Sea, Lewes and Seaford, DE, January 24.

Colloquium on the Environment and Natural Disaster Management. The World Bank, Washington, DC, June 27-28.

National Workshop on Goals and Options for the U.S. Geological Survey Earthquake Reduction Program, Denver, CO, August 7-8.

Meeting of the Committee on Disaster. International Sociological Association, Washington, DC. August 11.

Meeting. NSF-NRC Committee on Evaluation of US-PRC Earthquake Engineering Program, Washington, DC, October 22.

Nigg, Joanne

"Key Principles of Effective Knowledge Dissemination and Research Utilization." Invited paper at the First National Disaster Recovery Preparedness Conference of the American Defense Preparedness Association, Los Angeles, CA, April 10-11.

"Organizational Components of Natural Hazard Warning Systems." Presentation at the US-Taiwan Bilateral Meeting on Natural Disaster Reduction, sponsored by National Academy of Sciences, Taipei, ROC, August 28.

"Earthquake Predictions: A Management Problem." Council of State Governments National Conference on Contingency Management, Charleston, SC, November 15.

Quarantelli, E. I.

"Some Aspects of Disaster Planning in Developing Countries." UNCRD-CIRDAP Workshop on Integrated Approach to Disaster Management, Dhaka, Bangladesh, January 31.

Human Response in Disasters." REAC/TS Workshop on Medical Planning and Care in Radiation Accidents, Oak Ridge, TN, March 21.

"Information Flow at Times of Disasters." International Conference on Natural and Technological Risks in the Carribean, Martinique, May 24.

"Disaster Prevention and Mitigation: A Case Study in a Composite Asian Country." World Bank Colloquium on the Environment and Natural Disaster Management, Washington, DC, June 27.

"Emergency Communication Systems in Disasters in the United States." IDNDR International Conference 1990 Japan, Kagoshima, Japan, October 1.

"Perspective on Socioeconomic Influences in the Reconstruction Processes." Fourth International Research and Training Seminar on Regional Development Planning for Disaster Prevention, United Nations Center for Regional Development, Nagoya, Japan, October 5.

"The Different Worlds of Science and Mass Communication: Implications for Information Flow Between Them." International Workshop on Prediction and Perception of Natural Hazards, Perugia, Italy, October 25.

"Radiation Disasters: Similarities To and Differences From Other Disasters." International Conference on the Medical Basis for Radiation Accident Preparedness: III, Psychological Perspective, REAC/TS, Oak Ridge, TN, December 5.

Tierney, Kathleen

Instructor, "Earthquake and Fire Hazards in High Rise Buildings." Train-the-Trainer Course at Federal Emergency Management Agency's National Emergency Training Center, Emmitsburg, MD, January 7-8 and October 1-2.

"Societal Risk Associated with Crude Oil Transmission Systems in Areas of High Seismic Risk." Meeting of Principal Investigators of the National Center for Earthquake Engineering Research, Disaster Research and Planning Program, Washington, DC, January 11-12.

Panel presentation, "Emergency Medical Service Aspects of the Loma Prieta Earthquake." Prehospital Symposium on Recent Disaster and MCI Experiences in San Francisco, University of California, San Francisco/San Francisco General Hospital, January 25.

"Household and Business Recovery From Disasters: Issues Related to Insurance and Disaster Assistance." Invited testimony before the U.S. House of Representatives, Subcommittee on Policy Research and Insurance, Washington, DC, February 7.

"Risk of Hazardous Materials Releases Following Earthquakes." Paper at Port of Los Angeles Seismic Risk Workshop, Los Angeles, CA, March 21-23.

"Loss Estimation and Public Policy: Some Cautionary Words From a Social Science Perspective." Paper at National Academy of Sciences/National Research Council Forum on the Economic Consequences of a Catastrophic Earthquake, Washington, DC, August 1-2.

"Socioeconomic Impacts of the Loma Prieta Earthquake." Presentation at Bay Area Regional Earthquake Preparedness Conference, Putting the Pieces Together: The Loma Prieta Earthquake One Year Later, San Francisco, CA, October 15-18.

"Developing Multivariate Models for Earthquake Casualty Estimation." Paper at Earthquake Casualty Estimation Workshop, Pacific Grove, CA, December 4-6.

ACADEMIC ACTIVITIES

Dynes, Russell

Participant. General Meetings of the International Sociological Association's Research Council, Madrid, Spain, July 7-8.

Organizer. Program of Research Committee on Disaster, International Sociological Association, Madrid, Spain. July 9-13.

Nigg, Joanne

Member. Advisory Panel of the Hazard Reduction and Recovery Center, Texas A & M University.

U.S. Delegate. U.S.-Taiwan Bilateral Committee on Natural Disaster Reduction (sponsored by National Academy of Sciences).

Invited participant. Risk Paradigm Workshop, Tufts University, Medford, MA, January.

Invited speaker. Colloquium series, College of Urban Affairs and Public Policy, University of Delaware. March.

Invited speaker. Geography colloquium, University of Delaware. March.

Invited speaker. Geography colloquium, Rutgers University, New Brunswick, NJ. April.

U.S. Delegation to the U.S.-Taiwan Multi-Hazards Project Workshop, Washington, DC, April 4.

Chair. Public Policy and Sociological Issues Session, Fourth U.S. National Conference on Earthquake Engineering, Palm Springs, FL, May 21.

U.S. Delegate. IDNDR East Asia Regional Meeting (sponsored by the National Academy of Sciences). Honolulu, HI. August.

Organizer and Presider. NAS/NRC Forum on Economic Consequences of a Catastrophic Earthquake, Washington, DC. August.

Organizer and Presider. Social science component of the NSF-sponsored International Workshop on Prediction and Perception of Natural Hazards, Perugia, Italy. October 22-26.

Quarantelli, E. L.

Presider. Collective Behavior Episodes Session, American Sociological Association Annual Meeting, Washington, DC, August 14.

Member. Advisory Board of the International Laboratory of Sociopolitical Ecology (INTERLAB), University of Georgia.

Proposal reviewer. National Science Foundation, Australian Research Grants Council.

Editorial board: *Journal of Hazardous Materials*
 Hazard Monthly
 Psychosocial Stress
 Industrial Crisis Quarterly
 Asia-Pacific Journal of Rural
 Development
 Journal of Traumatic Stress

Tierney, Kathleen

Secretary. International Sociological Association's Research Committee on Disasters.

Nominating Committee. Section on Collective Behavior and Social Movements, American Sociological Association.

Workshop and Publications Committee. Section on Collective Behavior and Social Movements, American Sociological Association.

Chair. Public Response Issues in Hugo Session, National Hurricane Conference, Houston, TX, April 19.

Presider, session on Socioeconomic Impacts of Earthquakes. Fourth U.S. National Conference on Earthquake Engineering, Palm Springs, FL, May 19-22.

OTHER PROFESSIONAL ACTIVITIES

Dynes, Russell

Fellow. Society for Scientific Study of Religion.

Consultant: Florida Board of Regents
Texas Board of Higher Education
World Bank

Nigg, Joanne

Chair. Publications Committee, Earthquake Engineering Research Institute.

Invited speaker. Delaware Water-Use Advisory Committee, Delaware Geological Survey, Newark, DE. March.

Invited participant. NEHRP Policy Workshop, sponsored by FEMA. March.

Member. Governor's Council on Emergency Planning and Operations, State of Delaware. 1990-1993.

Invited participant. Annual meeting of the Central United States Earthquake Consortium, Indianapolis, IN. December.

Quarantelli, E. L.

Fellow. Japan Society for the Promotion of Sciences, September 8-October 6.

Member. United States Committee on the Decade for Natural Disaster Reduction, National Academy of Sciences.

Member. National Research Council Panel on the Evaluation of the United States-People's Republic of China Earthquake Engineering Program.

Consultant: Maravan of Venezuela
World Bank

Tierney, Kathleen

Steering Committee Member. Earthquake Engineering Research Institute's "Learning from Earthquakes" program.

Advisory Committee Member. National Earthquake Hazard Reduction Program.

Member. Local Emergency Planning Committee, New Castle County, DE.

Issue Consultant. Applied Technology Council's project, "Development of Recommended Guidelines for Seismic Strengthening of Existing Buildings."

CONTRACTS AND GRANTS

1. Disaster Analysis: Study of Hospitals and
Emergency Medical Services (continuing)

Federal Emergency Management Agency \$310,134
2. Preparedness and Response of Lifeline
Organizations in Community Disasters
(continuing)

National Science Foundation \$256,393
3. Emergency Preparedness and Response
Measures for Earthquake-Induced Oil
Pipeline Failures (new)

Dames & Moore \$ 12,714
4. Local Earthquake Mitigation and
Preparedness Planning in China
and the United States (continuing)

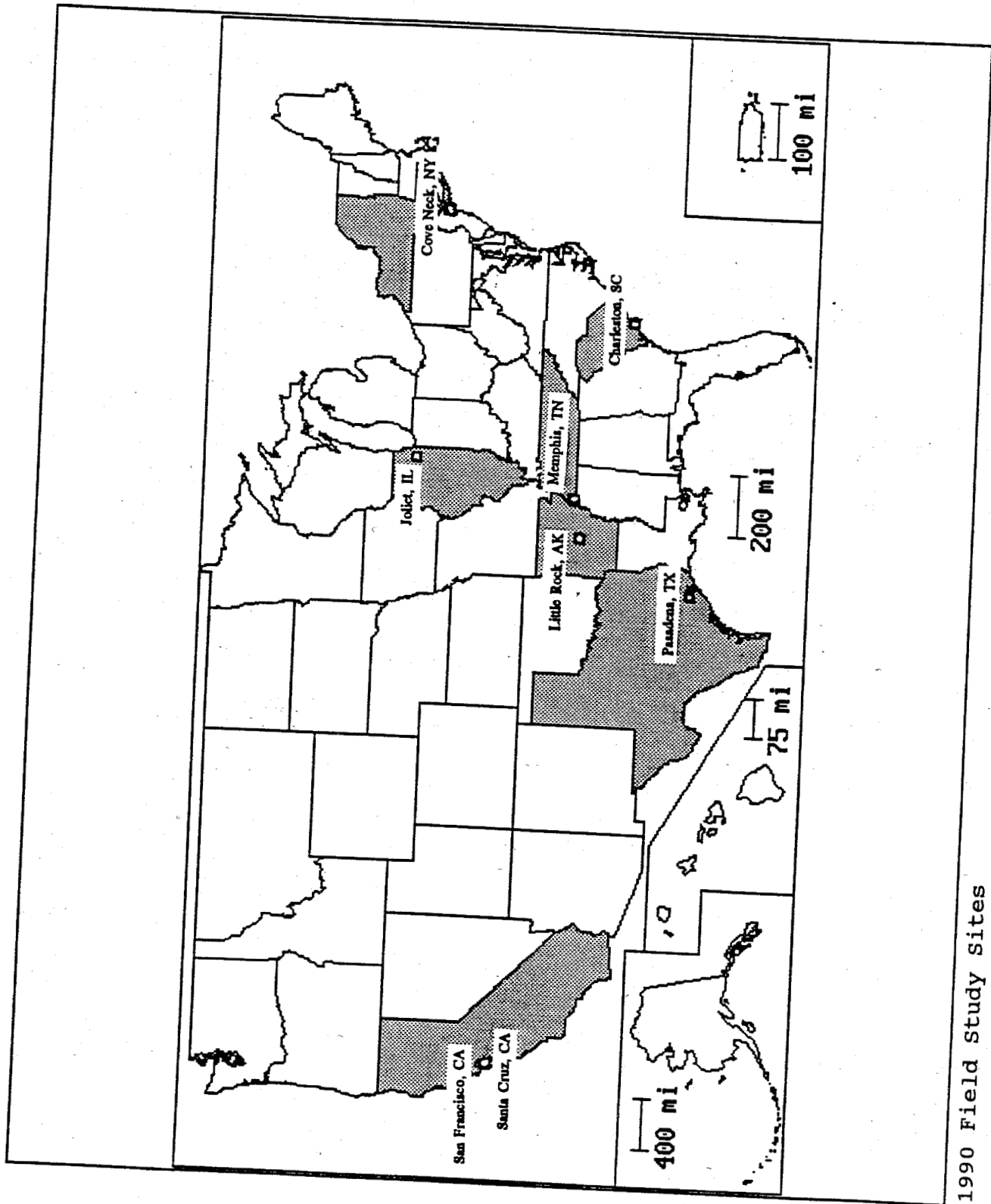
National Science Foundation \$242,548
5. Comparative Analysis of Community
Disaster Recovery (new)

National Science Foundation \$ 83,866
6. An International Workshop on Prediction
and Perception of Natural Hazards (new)

National Science Foundation \$ 51,471

DRC FIELD STUDIES

January 20	San Francisco/Santa Cruz, CA Follow-up 1989-1017, Earthquake
January 25	Cove Neck, NY Plane Crash
April 30	Pasadena, TX Follow-up 1989-1023, Explosion
May 9	Little Rock, AK Floods
May 19	San Francisco, CA Follow-up 1989-1017, Earthquake
May 29	Cove Neck, NY Follow-up 1990-0125, Plane Crash
August 18	Santa Cruz, CA Recovery 1989-1017, Earthquake
August 25	Charleston, SC Recovery 1989-0922, Hurricane
August 30	Joliet, IL Reconnaissance, Tornado
October 22	Joliet, IL Follow-up 1990-0830, Tornado
December 3	Memphis, TN Earthquake Prediction



1990 Field Study Sites

VISITORS TO DRC

Among visitors to DRC were staff members from:

- *** Emergency Communications Research Unit, Carleton University, Ottawa, Canada.
- *** National Research Centre, Electronic Research Institute, Dokki, Egypt.
- *** Pittsburgh Research Center, U.S. Bureau of Mines, Pittsburgh, PA.
- *** Road Safety Bureau, Roads & Traffic Authority, Rosebery, Australia.
- *** Department of Behavioral Sciences, Chumberland College of Health Sciences, University of Sidney, Lidcombe, Australia.
- *** Drew Dawn Enterprises, Inc., Washington, DC.
- *** Department of Psychology, Brooklyn College, Brooklyn, NY.
- *** Private Consultant, Baltimore, MD.
- *** Department of Sociology, Penn State University, Schuylkill Haven, PA.
- *** Faculty of Education, University of Cassino, Rome, Italy.
- *** Department of Early Childhood and Family Studies, Kean College of New Jersey, Union, NJ.
- *** Department of Emergency Medicine, Jersey Shore Medical Center, Neptune, NJ.
- *** Consortium of Central American Universities, Ciudad Universitaria, Rodrigo Facio, San Jose, Costa Rica.
- *** The URSA Institute, San Francisco, CA.
- *** Department of Geography and Planning, West Chester University, West Chester, PA.
- *** League of Red Cross and Red Crescent Societies, Geneva, Switzerland.
- *** External Affairs, DuPont Company, Wilmington, DE.
- *** Department of Sociology, Institute of Philosophy & Law, Armenian Academy of Sciences, Armenia.

NEW DRC PUBLICATIONS IN 1990

"Community Emergency Planning: False Assumptions and Inappropriate Analogies," Russell R. Dynes.

"Guidelines for the Development of Emergency Management for Fixed Site Installations," Russell R. Dynes.

"The Socio-Cultural and Behavioral Context of Disasters and Small Dwellings," Russell R. Dynes.

"Explaining Differential Outcomes in the Small Business Loan Application Process," Joanne Nigg and Kathleen Tierney.

"A Cross-Societal Comparison of Disaster News Reporting in Japan and the United States," E. L. Quarantelli and Dennis E. Wenger.

"Disaster Planning for Transportation Accidents Involving Hazardous Materials," E. L. Quarantelli.

"Emergency," E. L. Quarantelli.

"The Mass Media in Disasters in the United States," E. L. Quarantelli.

"A Preliminary Statement on the Different Worlds of Science and Mass Communication: Implications for Information Flow Between Them," E. L. Quarantelli.

"Radiation Disasters: Similarities and Differences From Other Disasters," E. L. Quarantelli.

"Similarities and Differences in Institutional Responses to Natural and Technological Disasters," E. L. Quarantelli.

"Some Aspects of Disaster Planning in Developing Countries," E. L. Quarantelli.

"The Warning Process and Evacuation Behavior: The Research Evidence," E. L. Quarantelli.

"Developing Multivariate Models for Earthquake Casualty Estimation," Kathleen Tierney.

"A Risk of Hazardous Materials Releases Following an Earthquake," Kathleen Tierney.