

## REFERENCES

- Bahme, C. W.  
1972 Fire Officer's Guide to Dangerous Chemicals. Boston:  
National Fire Protection Association.
- Corbett, C. R.  
1978 "A dynamic regional response team." Pp. 44-48 in Control  
of Hazardous Materials Spills. Rockville, Maryland: U. S.  
Environmental Protection Agency.
- Dynes, Russell R.  
1974 Organized Behavior in Disaster. Columbus, Ohio: The  
Disaster Research Center, The Ohio State University.
- Froebe, L. R.  
1976 "The organization of a local environmental response team."  
Pp. 156-160 in Proceedings of the 1976 National Conference  
on Control of Hazardous Materials Spills. New Orleans,  
Louisiana, April.
- Froebe, L. R.  
1977 "State and local response capabilities for hazardous  
materials spills to a water supply." Paper presented  
at the 97th Annual Conference of the American Water Works  
Association. Anaheim, California, May.
- Gabor, Tom and Terri K. Griffith  
forthcoming "The assessment of community vulnerability to acute  
hazardous materials incidents." Journal of Hazardous  
Materials.
- International Association of Chiefs of Police  
1973 Evaluating Hazardous Materials Emergencies. Training  
Key #203. Gaithersburg, Maryland: International Assoc-  
iation of Chiefs of Police.
- Lyons, Richard D.  
1979 "Shipping hot stuff-straight through or straight UP?"  
New York Times, April 15, page E-7.
- Missouri Pacific Railroad Company  
1977 Safety First--Emergency Handling of Hazardous Materials  
in Railroad Cars. St. Louis: Missouri Pacific Railroad  
Company.
- National Fire Protection Association  
1975 Fire Protection Guide on Hazardous Materials. Boston:  
National Fire Protection Association.

- Pearson, T. W.  
1978 "Response capability--the first man in." Pp. 447-450  
in Control of Hazardous Materials Spills. Rockville,  
Maryland: U. S. Environmental Protection Agency.
- Quarantelli, E. L.  
1977 "Social aspects of disasters and their relevance to  
pre-disaster planning." Disasters 1, No. 2: 98-107.
- U. S. Department of Transportation  
1978 Emergency Action Guide for Selected Hazardous Materials.  
Washington, D. C.: National Highway Traffic Safety  
Administration and Materials Transportation Bureau.
- Zajic, J. E. and W. A. Himmelman  
1978 Highly Hazardous Materials and Emergency Planning.  
New York: Dekker.

Selected Bibliography of Publications Most Relevant to  
Hazardous Materials Disaster Preparedness Planning

Part I. Disaster Research Center Annotated Sources

1. Russell R. Dynes and E. L. Quarantelli, The Role of Local Civil Defense in Disaster Planning, Disaster Research Center Report Series No. 16 (1977).

Field studies in 12 American cities were made of the factors affecting the tasks, saliency and legitimacy of local civil defense organizations in disaster planning at the community level. Successful involvement in planning was associated with experience in community emergencies, acceptance and legitimization by the local governmental structure, pre-disaster relationships developed by the civil defense director and the provision to the community of emergency-relevant resources such as EOCs.

2. Russell R. Dynes, E. L. Quarantelli and Gary A. Kreps, A Perspective on Disaster Planning, Disaster Research Center Report Series No. 11 (1972).

This report presents the characteristics of disaster agents and the kinds of demands they generate. Misconceptions about human and group behavior in disaster situations are examined. A contrast is made between community activities in normal times and during emergencies. The basic elements involved in organized response of a community to disaster are set forth. The report concludes with a systematic discussion of disaster planning, including weaknesses in typical disaster plans and strategies for planning.

3. Thomas Gabor and Terri K. Griffith, "The Assessment of Community Vulnerability to Acute Hazardous Materials," Journal of Hazardous Materials, Volume 3, Number 4 (June, 1980): 323-333.

In this paper, a rationale is provided for the performance of community vulnerability analyses. The components of vulnerability are defined and their implications for disaster planning discussed. Subsequently, the different forms and functions of current site, transportation route and community assessment techniques are reviewed. In addition, a new function of such assessments is identified--the application of vulnerability analyses in a large geographic area. The paper concludes with the development of a preliminary regional rating scheme.

4. E. L. Quarantelli, Draft Outline of Report on Implementing Community Disaster Planning, Disaster Research Center Preliminary Paper #51 (Columbus: Disaster Research Center, The Ohio State University, 1978 ).

A draft outline of a projected report. Touches on the role of civil defense in community disaster planning, key assumptions in implementing planning, role of the public in such implementation, context of undertaking planning, carrying out planning in community organizations, total community planning, utilizing extra-community resources in initiating disaster planning and utilizing opportunities for implementing disaster planning.

5. E. L. Quarantelli, Uses and Problems of Local EOCs in Disasters, Disaster Research Center Preliminary Paper #53 (Columbus: Disaster Research Center, The Ohio State University, 1978 ).

The first section examines the location of emergency operation centers (EOCs), both those that are preplanned and those that emerge at times of disasters. In the section that follows, there is a discussion of when EOCs are operative, primarily when they are activated, but some attention is also given to the duration of their active existence, and the question of their closing down after an emergency. The following section considers who is involved in EOCs and looks at how participants get involved. The conclusion touches on the functions or tasks carried out by EOCs.

6. E. L. Quarantelli, A 100 Item Annotated Bibliography on Disaster and Disaster Planning, Disaster Research Center Miscellaneous Report #25 (Columbus: Disaster Research Center, The Ohio State University, 1980).

The first part of the bibliography lists books, monographs, reports and articles from the Disaster Research Center. The second part lists books, monographs, reports and collections of articles from work done elsewhere. The bibliography concludes with a listing of other bibliographies, journals in the disaster area, and newsletters on disaster topics.

7. E. L. Quarantelli, Clark Lawrence, Kathleen Tierney and Ted Johnson, "Initial Findings from a Study of Socio-Behavioral Preparations and Planning for Acute Chemical Hazard Disasters," Journal of Hazardous Materials, Vol. 3, No. 1 (February, 1979): 79-90.

Preliminary results are discussed from a Disaster Research Center study of the chemical disaster preparedness in 14 American communities and as manifested in six actual incidents. A model and some implications for planning are presented as well as findings about community and organizational perceptions of chemical threats, resources to deal with such threats, and the social climate in which emergency groups operate.

8. E. L. Quarantelli and Kathleen Tierney, "Disaster Preparedness Planning," Fire Safety and Disaster Preparedness (Washington, D. C.: Office of Public Sector Programs, AAAS, 1979 ): 263-313.

An initial discussion of why disaster preparedness is necessary and in what way it can make a difference, is followed by an overview of the state of present day disaster preparedness at the federal, state and local levels in American society. There is a discussion of the two major conditions affecting the problem; namely, policy differences as to the nature and goals of disaster planning preparedness, and an inadequate application in disaster planning and training of the basic and applied knowledge already established by social and behavioral scientists looking at disaster phenomena. Different uses of research are discussed, including evaluative research and the development of mechanisms for better technology transfer. The paper concludes with a series of recommendations on how to improve disaster research and the application of research findings at the operational and planning levels of organizations and officials interested in disaster preparedness.
9. E. L. Quarantelli and Kathleen Tierney, Social Climate and Preparations for Sudden Chemical Disasters, Disaster Research Center Preliminary Paper #55 (Columbus: Disaster Research Center, The Ohio State University, 1979 ).

An overall community model for looking at preparedness for chemical disasters is presented. The bulk of the paper discusses what research has found about the dimension of social climate; namely, the belief assumptions, the value priorities, and the norm expectations which affect planning.
10. E. L. Quarantelli, Kathleen J. Tierney, Quentin T. Johnson, and Clark Lawrence, Outline of a Model for Studying Community Preparedness for Acute Chemical Disasters, Disaster Research Center Preliminary Paper #57 (Columbus: Disaster Research Center, The Ohio State University, 1979).

The first part of the paper presents the general background of a field study of chemical disaster preparedness in 19 American communities. In the second part, some specific information about the research design used and the data obtained in the first year of the work is given. In the next section, the overall model being used to analyze the preparedness data is presented. The final part of the paper focuses on the local community and indicates some of the kinds of questions which are addressed in the study. Examples are drawn from the field data to illustrate general findings and observations.

The DRC Publication List, which lists several hundred items, and which is updated every three or four months, can be obtained upon request and at no charge from:

DRC Publications  
128 Derby Hall, 154 North Oval Mall  
The Ohio State University  
Columbus, OH 43210

## Part II. Non-DRC Sources

### A. Books, Reports and Operational Guides

#### 1. Association of American Railroads. Bureau of Explosives

1973      Emergency Handling of Hazardous Materials in Surface  
            Transportation. Washington, D. C.: Bureau of Explosives.

#### 2. Benner, Ludwig

1976      Hazardous Materials Emergencies. Oakton, Virginia: Lufred  
            Industries, Inc.

#### 3. Chemical Manufacturer's Association (formerly Manufacturing Chemists' Association)

CHEMCARDS, Cargo Information Cards, and Manuals to accompany them.

Note: CMA produces numerous manuals and aids in the chemical hazard  
      area. These may be obtained by writing to the organization at:  
          1823 Connecticut Avenue  
          Washington, D. C. 20009

#### 4. Department of Transportation--U. S. Coast Guard

1974      CHRIS--A condensed Guide to Chemical Hazards. Washington,  
            D. C.: Coast Guard Report CG 446-1.

#### 5. McRae, A. and L. Whelchel

1978      Toxic Substances Control Sourcebook. No city: Aspen Systems  
            Corporation. Center for Compliance Information.

#### 6. Meidl, J. H.

1972      Hazardous Materials Handbook. Beverly Hills: Glencoe.

#### 7. National Fire Protection Association

Handling Hazardous Materials Transportation Emergencies.  
(Training course, which includes instructional materials  
and student manual). NFPA Publication No. SL-29WB.

The National Fire Protection Association has produced a large number  
of publications in this area. They can be ordered at:

National Fire Protection Association  
Publications Department  
470 Atlantic Avenue  
Boston, MA 02210

#### 8. National Transportation Safety Board

1979 Onscene Coordination Among Agencies at Hazardous Materials Accidents.  
Washington, D. C.: NTSB

The National Transportation Safety Board issues a variety of special investigative reports and special studies. Anyone can be placed on the mailing list by writing to:

National Transportation Safety Board  
Washington, D. C. 20594

9. Simmons, J. A., R. C. Erdmann, and B. N. Naft

1974 The Risk of Catastrophic Spills of Toxic Chemicals. Los Angeles: University of California, Los Angeles, School of Engineering and Applied Science.

10. U. S. Department of Transportation

1977 Hazardous Materials--Emergency Action Guide. Washington, D. C.: National Highway Traffic Safety Administration and Materials Transportation Bureau.

Other DOT publications on the handling of hazardous materials emergencies may be ordered from

Chief, Operations Division  
Office of Hazardous Materials Operations  
Materials Transportation Bureau  
Department of Transportation  
Washington, D. C. 20590

B. Films

A partial listing of films on packaging and handling of hazardous materials can be obtained from:

Materials Transportation Board  
Department of Transportation  
Office of Hazardous Materials Operations  
Operation Division MTH-30  
Washington, D. C. 20590

Especially worthwhile films are The Safe Transportation of Hazardous Materials; Bleve; Chlorine and the Firefighter; Handle with Care; Those Vital First Minutes; and A Voice Shall Be Heard.

C. Newsletters and Journals

1. Disasters: The International Journal of Disaster Studies and Practice  
Pergamon Press. Fairview Park, Elmsford, New York 10523
2. Disaster Information. FEMA, Washington, D. C. 20472
3. The Hazard Monthly. Research Alternatives, 10221 Arizona Circle,  
Bethesda, Maryland 20034

4. International Civil Defense. 10-12 ch. de Surville, 12131 Petit-Lancy, Geneva, Switzerland
5. Journal of Hazardous Materials. Elsevier. 52 Vanderbilt Avenue, New York, New York 10017
6. Natural Hazards Observer. IBS #6 University of Colorado, Boulder, Colorado 80309