

mass emergencies

An International Journal of Theory, Planning and Practice

EDITORS

JIRI NEHNEVAJSA
University Center for Urban Research
University of Pittsburgh

ENRICO QUARANTELLI
Disaster Research Center
Ohio State University

VOLUME 3 (1978)



ELSEVIER – AMSTERDAM

Appropriate articles are abstracted/indexed in:

Current Contents/Social and Behavioral Sciences
Social Science Citation Index

© Elsevier Scientific Publishing Company, 1978.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of the publisher, Elsevier Scientific Publishing Company, P.O. Box 330, 1000 AH Amsterdam, The Netherlands.

Submission of an article for publication implies the transfer of the copyright from the author to the publisher and is also understood to imply that the article is not being considered for publication elsewhere.

Submission to this journal of a paper entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17 paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16 b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Printed in The Netherlands.

CONTENTS

Towards a Community Disaster Model for Policy Analysis <i>Bradley Borkan and Howard Kunreuther</i>	1
Post-Disaster Reconstruction Planning: The Cases of Nicaragua and Guatemala <i>Alcira Kreimer</i>	23
Mass Emergency Problems and Planning in the United Kingdom from the Perspective of the Police <i>Brian E. Fisher</i>	41
The American Red Cross Response to Disasters: <i>Roy S. Popkin</i>	49
The American National Red Cross and Image Maintenance: A Research Note <i>Thomas F. James and Dennis E. Wenger</i>	55
New Aspects of the Sociology of Disaster A Theoretical Note <i>Lars Clausen, Paul Conlon, Wieland Jäger and Stephan Metreveli</i>	61
CONTRIBUTORS	66
BOOK REVIEW	67
NOTES	68

mass emergencies

An International Journal of Theory, Planning and Practice

EDITORS

Jiri Nehnevajsa

University Center for Urban Research
University of Pittsburgh
249 North Craig Street
Pittsburgh, PA 15260

E.L. Quarantelli

Disaster Research Center
Ohio State University
127-129 West 10th Avenue
Columbus, OH 43201

ASSISTANT EDITOR

Sandra A. Creighton, University of Pittsburgh

BOOK REVIEW EDITOR

Verta Taylor, Ohio State University

EDITORIAL ADVISORY BOARD

Kitao Abe

Tokyo University of Foreign Studies

William Anderson

National Science Foundation
Washington D.C., U.S.A.

A.H. Barton

Bureau of Applied Social Research
Columbia University
New York, U.S.A.

Rune Berlin

Organizing Committee for Disaster Medicine
Djursholm, Sweden

David R. Boyd

Division of Emergency Medical Services
West Hyattsville, Maryland, U.S.A.

Robert C. Brietson

Office of Medical Education,
Research and Development
Michigan State University
East Lansing, Michigan, U.S.A.

Ian Burton

Department of Geography
University of Toronto

Charles Chandossais

Center for the Psychological and
Social Study of Catastrophe
Paris, France

Neil J. Ericksen

University of Waikato
Hamilton, New Zealand

F.S. Feates

Hazardous Materials Service
The Harwell Laboratory
Harwell, England

C.E. Fritz

National Academy of Sciences
Washington, D.C., U.S.A.

J. Eugene Haas

Department of Sociology
University of Colorado
Boulder, Colorado, U.S.A.

Howard Kunreuther

Department of Decision Sciences
The Wharton School
University of Pennsylvania
Philadelphia, Pennsylvania, U.S.A.

M.F. Lechet

Research Center in Disaster
Epidemiology
Brussels, Belgium

James Lewis

Center for Development Studies
University of Bath
Claverton Down, Bath, England

T. Joseph Scanlon

School of Journalism
Carleton University
Ottawa, Canada

Robert H. Simpson

Department of Environmental Sciences
University of Virginia
Charlottesville, Virginia, U.S.A.

P.C. Stanissis

League of Red Cross Societies
Geneva, Switzerland

Burke Stannard

Emergency Planning Canada
Ottawa, Ontario

Walmer E. Stroppe

Stanford Research Institute
Arlington, Virginia, U.S.A.

Stephen Tripp

Disaster Planning and Preparedness
Consultant
U.S. Department of State
Washington, D.C., U.S.A.

Ralph Turner

Department of Sociology
University of California
Los Angeles, California, U.S.A.

Eugene Wigner

Department of Physics
Princeton University
Princeton, New Jersey, U.S.A.

Subscription Information

Mass Emergencies appears in one volume of four issues per year; Vol. 3 covers 1978. The subscription rates are: Dfl. 50.00 or approx. US \$21.75 for those individuals who warrant the journal is for their own personal use; and Dfl. 103.00 or approx. US \$44.95 for libraries, research institutions, and others. Orders for subscriptions and single issues should be sent to Elsevier Scientific Publishing Company, P.O. Box 211, 1000 AE Amsterdam, The Netherlands. Claims for issues not received should be made within three months of publication of the issues. If not, they cannot be honoured free of charge. Journals are automatically sent by air to the U.S.A. and Canada at no extra cost; and to Japan, Australia and New Zealand at a small additional postal charge.

SUGGESTIONS FOR CONTRIBUTORS

Aims and Scope

This new journal provides an international forum for scientists, planners and practitioners concerned with problems of emergencies and disasters. Due to the obviously multi-faceted nature and global significance of problems encountered in research planning and operations connected with emergencies, the scope of *Mass Emergencies* will be multinational and international, as well as multidisciplinary and interdisciplinary.

The journal promotes the publication of material concerning scientific inquiries, planning, organization, output, communications and operational activities bearing on the prevention of emergencies and disasters, disaster detection and warning systems; problems created by public and private responses to disaster warning under emergency conditions; disaster trajectories and impact; intervention and rescue strategies; including problems of recovery and reconstruction.

While each issue of the journal may deal with a variety of relevant topics, special issues dealing with particular types of emergency and disaster situations will be published whenever it is possible to bring the expertise of scientists, planners and practitioners together in a specific problem area.

Types of Contributions

- Research reports, including material on the "state of the art," research designs and research findings.
- Articles generated by planners, whether they pertain to the current state of plans or organization; to identification of problems requiring planning or replanning; to issues of plan implementation; or experiences which have to do with the whole process of plan formulation, adoption and implementation.
- Contributions of practitioners who are responsible for, or knowledgeable about, acting under emergency and disaster conditions.

It would be greatly appreciated if contributors were to follow the following suggestions concerning manuscript preparation.

Please submit three typed copies of the paper, in English, reproduced on one side of good quality opaque paper. (An additional copy should be kept by the author). Type the text, including tables, legends to illustrations, references, notes, and brief biography, double-spaced. Allow margins of at least one inch on all sides of the typed pages. Number the manuscript pages consecutively throughout the paper.

Your footnotes should be brief. They should be limited to those essential to explaining a point in the text and not combined with References to the Literature which are to be placed in a separate list.

Please cite references by typing, in the text line, the author's (or authors') name(s) followed by year of publication (enclosed in parentheses). If more than one paper of an author appears from the same year, then the citation should read, for example, (Jones, 1966a) and (Jones, 1966b). List complete reference citations alphabetically on a separate sheet of the manuscript according to the following system:

Articles. Authors' names; year of publication (in parentheses); title of article; title of periodical; volume no.; and page no.

Example: Schneider, David (1957). "Natural disaster and political crises in a polynesian society," *Human Relations* 10: 3-27.

Books. Authors' names; year of publication (in parentheses); title of book (if multi-author volume, title of contribution followed by editors' names, title of book); part or volume no. (abbreviated to Vol); no. of edition; page no. preceded by p. or pp.; publisher's principal address; and publisher's name.

Example: Prince, Samuel H. (1920). *Catastrophe and Social Change*. New York: Columbia University Press.

Each of your tables should have a title. Place all footnotes to a table at the end of the table. Define all data in the column heads. Every table should be fully understandable even without reference to the text. Type all tables on separate sheets; do not include them within the text. Indicate in the text where the table is to appear.

Figures (i.e. any illustrative material that cannot be typed), should be supplied in directly reproducible form — drawings in Indian ink or sharp black and white photographs are the best.

Finally, it is very important that we have your full name, affiliation and complete postal address; the affiliation will appear on the title page, and the address is needed for sending out proofs.

Please send your contributions to: Dr. Jiri Nehnevajsa,
University Center for Urban Research,
University of Pittsburgh,
249 North Craig Street,
Pittsburgh, PA 15260, U.S.A. or

Dr. E.L. Quarantelli,
Disaster Research Center,
The Ohio State University,
127-129 West 10th Avenue,
Columbus, Ohio 43201, U.S.A.

Submission to this journal of a paper entails the author's irrevocable and exclusive authorization of the publisher to collect any sums or considerations for copying or reproduction payable by third parties (as mentioned in article 17, paragraph 2 of the Dutch Copyright Act of 1912 and in the Royal Decree of June 20, 1974 (S. 351) pursuant to article 16 b of the Dutch Copyright Act of 1912) and/or to act in or out of Court in connection therewith.

Customers in the U.S. and Canada wishing additional information on this and other Elsevier journals, should contact our Journal Information Centre, 52 Vanderbilt Avenue, New York, N.Y. 10017. Tel: (212) 867-9040.