

CURRICULUM VITAE

JOHN HOWARD SORENSEN

Current Address 11708 Finch Road
 Knoxville, TN 37934 and
 1121 1st Street
 Newport, OR 97365

Telephone (865) 966-2930 home
 (865) 898-2350 cell

Internet Address sorensen@tds.net

Date of Birth June 7, 1951

Current Status Independent Researcher

Security Clearance Former DOE Q (Top Secret equivalent)

ACADEMIC QUALIFICATIONS

1973 Bachelor of Arts in Geography and Economics - Clark University

1974 Master of Arts in Geography - University of Colorado
 Thesis title: "Nuclear Energy in Light of Resource Management Experience"

1977 Doctor of Philosophy in Geography - University of Colorado
 Dissertation title: "Interaction of Adjustments to Natural Hazard"

PROFESSIONAL RESEARCH INTERESTS

- (1) Assessment of the manner in which people plan for and respond to risk from natural and human-induced hazards, with emphasis on the social consequences and associated implications for public policy and emergency planning.
- (2) Social and behavioral science issues in environmental and resource management.

RESEARCH AND DEVELOPMENT EXPERIENCE

2012 – Present Independent Researcher
2003 – 2011 Distinguished Research and Development Staff, Oak Ridge National Laboratory

2001 – 2002	Senior Research and Development Staff, Oak Ridge National Laboratory
1998 – 2000	Director, Emergency Management Center, Oak Ridge National Laboratory
1992 – 1997	Group Leader, Disaster Management and Mitigation Group, and Senior Research Staff I Oak Ridge National Laboratory
1989 - 1991	Group Leader, Hazard Management Group, and Senior Research Staff I, Oak Ridge National Laboratory
1986 – 1989	Research Staff II, Oak Ridge National Laboratory
1983 – 1986	Research Staff I, Oak Ridge National Laboratory
1980 – 1983	Research Associate III, Oak Ridge National Laboratory

Principal Investigator:

- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2010, \$650,000.
- “Support of Citizen Corp, Are You Ready”, FEMA, 2010, \$210,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2009, \$800,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2008, \$885,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2008, \$1,250,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2007, \$1,220,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2006, \$1,320,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2005, \$1,225,000.
- “Biological Background Characteristics Data Server,” DHS Office of Science and Technology, 2003-2004, \$220,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2004, \$1,225,000.
- “Risk Communication and Emergency Warning,” FEMA, 2003, \$248,000
- “Intelligent Consequence Management,” ORNL Laboratory Directors Research Development Fund, 2003, \$425,000.
- “Chemical Stockpile Emergency Preparedness Program (CSEPP) Technical Training,” FEMA, 2003, \$1,253,000.
- “Risk Communication and Emergency Warning,” FEMA, 2002, \$295,000
- “Technical Support for Chemical and Related Technological Hazard Management,” FEMA, 2002, \$700,000.
- “How Clean is Safe: Decontamination for Chem/Bio Incidents, DOE, 2001, \$150,000.
- “Technical Support for Chemical and Related Technological Hazard Management,” FEMA, 2001, \$650,000.
- “How Clean is Safe: Decontamination for Chem/Bio Incidents, DOE, 2000, \$170,000.
- “Technical Support for Chemical and Related Technological Hazard Management,” FEMA, 2000, \$410,000.
- “Accident Investigation Support,” Chemical Safety and Hazard Investigation Board, 1999, \$1,100,000.

- " Black Sea Environmental WWW Project," DOE, 1998-1999, \$75,000
- "Technical Support for Chemical and Related Technological Hazard Management," FEMA, 1998, \$3,100,000.
- "Accident Investigation Support," Chemical Safety and Hazard Investigation Board, 1998, \$750,000.
- " Technical Support for Emergency Planning," FEMA, 1997, \$1,196,000.
- " Medical Management of Biological Casualties," FEMA/USAMRIID, 1997, \$435,000.
- " Emergency Management Program Development," Energy Division, ORNL, 1996, \$25,000.
- " Technical Support for Emergency Planning," FEMA, 1996, \$1,090,000.
- " Technical Support for Emergency Planning," FEMA, 1995, \$1,675,000.
- " Technical Support for Emergency Planning," FEMA, 1994, \$2,069,000.
- " Technical Assistance for the Chemical Stockpile Emergency Preparedness Program," DOA/DOD, 1994, \$675,000.
- "Technical Support for Emergency Planning," FEMA, 1993, \$1,701,000.
- "Technical Assistance for the Chemical Stockpile Emergency Preparedness Program," DOA/DOD, 1992-1993, \$1,445,000
- (with B. Vogt) "Coastal Hazards and Sea Level Rise," DOE, 1992, \$65,000
- "Technical Support for Emergency Planning," FEMA, 1992, \$1,400,000.
- "Emergency Management Information System Support," DOA/DOD, 1992, \$600,000.
- "Technical Support for Emergency Planning," FEMA, 1991, \$1,800,000.
- "Research to Support the Chemical Stockpile Emergency Preparedness Program," DOA/DOD, 1991, \$4,130,000.
- "Technical Support for Emergency Planning," FEMA, 1990, \$1,470,000.
- "Research to Support the Chemical Stockpile Emergency Preparedness Program," DOA/DOD, 1990, \$3,425,000.
- "Guidance On Public Alert and Notification During Chemical Emergencies," FEMA, 1988-9, \$160,000.
- "Emergency Planning For Chemical Weapons Accidents," DOA/DOD, 1988-9, \$2,140,000.
- "SARA Title III Warning System Review, EPA, 1987, \$150,000.
- "Center for Technology Utilization" ORNL, 1987, \$175,000.
- "Warning Systems: A State of the Art Review," FEMA, 1985, \$100,000.
- "Evacuation Liability Issues," DOE, 1984, \$50,000.
- "Emergency Evacuation: A State-of-the-Art Review," FEMA, 1984, \$110,000
- "Emergency Response to Critical Oil and Gas Distribution Facility Damage," DOE, 1984, \$117,000
- "Organizational Interface in Reactor Emergency Planning," NRC, 1982-83, \$125,000
- "Human Factors in Incident Alert Notification," NRC, 1982-83, \$150,000
- "Social and Psychological Impacts of Restarting TMI Unit 1," NRC, 1982, \$300,000
- "Test Exercises for Energy Emergency Planning," DOE, 1981-82, \$250,000
- "Carrying Capacity and Energy Facility Siting," DOE, 1981, \$275,000.

Project Participation:

- "Warning and Evacuation Guidance in support of Life Loss Estimation due to Flooding," US Army Corp of Engineers, 2014.
- "Tsunami Warning Messaging," East Tennessee State University, 2011-2014.

- "Tools for Chemical Facility Vulnerability Modeling," DHS, 2007
- "LAX Airport Reentry Following a Release of Chemical Agent," DHS, 2005- 2010.
- "Second Assessment of Research on Natural Hazards," University of Colorado, 1996- 1998
- "National Climate Change Assessment," DOE. 1997.
- "Support to the Presidential Committee on Critical Infrastructure Protection," DOE, 1997.
- "National Earthquake Hazard Reduction Program Assessment," FEMA, 1993.
- "Global Climate Change Program," Agency for International Development, 1990.
- "Dam Safety Risk Analysis," U.S. Army Corps of Engineers, 1986.
- "Environmental and Social Impacts of Disposal of Chemical Weapons," U.S. Army, 1984 - 1987
- "Building Systems Research Utilization," DOE, 1984
- "Evaluation of State Energy Conservation Program," DOE, 1984
- "Development of Efficiency Research and Implementation Planning Tools for Navy Shore Facilities," NCEL, 1983
- "Environmental Impacts of the Commercial and Apartment Building Conservation Service," DOE, 1983
- "Technical Assistance for State Energy Emergency Planning," DOE, 1980-1981
- "Incentives for Siting Radioactive Waste Facilities," ONWI, 1981
- "Analysis of the Applicability of the TMI Action Plan to the Ft. St. Vrain HTGR," NRC, 1981-82
- "Societal Implications of Decommissioning Energy Facilities," ORNL Seed Money Grant, 1982
- "Environmental Impacts of Solvent Refined Coal Demonstration Plants," DOE, 1981.

Research Associate, Environmental Center, University of Hawaii. Chiefly responsible for preparing official university reviews of State and Federal Environmental Assessments and Environmental Impact Statements. Responsibilities also included preparing testimony and testifying at State Legislative Hearings (1980).

Consultant, Woodward Clyde Consultants, San Francisco. "Analysis of the Adoption and Implementation of Community Land Use Regulations for Floodplains," supported by the National Science Foundation (1977-1979).

Research Associate, "Coastal Zone Management in Hazardous Areas," Institute of Behavioral Science, University of Colorado, supported by the Office of Coastal Zone Management (1976-1977).

University Researcher, "Socio-economic and Political Consequences of Earthquake Prediction," Institute of Behavioral Science, University of Colorado, supported by the National Science Foundation (1975-1976).

Research Assistant, "Assessment of Research on Natural Hazards," Institute of Behavioral Science, University of Colorado, supported by the National Science Foundation (1973-1974).

TEACHING EXPERIENCE

Teaching Assistant, Department of Geography, University of Colorado (1974).

Course: Environmental Quality and Human Choice

Visiting Assistant Professor, Department of Geography, University of Hawaii (1977-1980).

Courses: Geography and Contemporary Society
Conservation and Resource Management
Seminar on Decision Making in Resource Management
Hazard and Human Decisions
Seminar on Behavioral Science Aspects of Impact Assessment
Field Research
Environment and Culture

Adjunct Faculty, University of Tennessee, 2006-2012.

Lecturer, Harvard School of Public Health, Summer Course Series, 1988, 1991.

PUBLICATIONS

Books/Monographs

Contributor. *Public Response to Alerts and Warnings on Mobile Devices: Summary of a Workshop on Current Knowledge and Research Gaps*. Washington, DC: National Academy Press, 2011.

Contributor. *Facing Hazards and Disasters: Understanding Human Dimensions*. Washington, DC: National Academy Press, 2006.

Contributor. Mileti, Dennis et al. *Disasters By Design*. Washington DC: Joseph Henry Press. 1999.

Sorensen, John, Jon Soderstrom, Emily Copenhaver, Sam Carnes and Robert Bolin. *Impacts of Hazardous Technology: The Psycho-Social Effects of Restarting TMI-1*. Albany: State University of New York Press, 1987.

Mileti, Dennis, Janice Hutton and John Sorensen, *Earthquake Prediction Response and Options for Public Policy*. Boulder: University of Colorado, Institute of Behavioral Science, Program on Technology, Environment and Man, Monograph No. 31, 1981.

Sorensen, John and J. Kenneth Mitchell, *Coastal Erosion Hazard in the United States: A Research Assessment*. Boulder: University of Colorado, Institute of Behavioral Science, Program on Technology, Environment, and Man, Monograph No. 014, 1975.

Sorensen, John, Neil Ericksen and Dennis Mileti, *Landslide Hazard in the United States: A Research Assessment*. Boulder: University of Colorado, Institute of Behavioral Science, Program on Technology, Environment and Man, Monograph, No. 016, 1975.

Book Chapters

Sorensen, John and Barbara Vogt. "Community Process: Warning and Evacuation." In Havidan

Rodriguez, Enrico Quarantelli, and Russell Dynes (eds.) *Handbook of Disaster Research*, pp. 183-199. New York, NY: Springer, 2006.

Vogt, Barbara. and John Sorensen. "Chemical Decontamination." In Cittione, G. (ed.) *Disaster Medicine*. pp. 459-464. Philadelphia, PA: Mosby Elsevier, 2005.

Sorensen, John. "Three Mile Island." In P. Wexler (ed.) *The Encyclopedia of Toxicology*, Second Edition, pp. 184-186. New York: Academic Press, 2005.

Vogt, Barbara and John Sorensen, "Protecting The Healthcare Population And Facility," in K. Joanne McGlown (ed.) *Terrorism and Disaster Management: Preparing Healthcare Leaders for the New Reality*. Chicago: Health Administration Press, 2004.

Sorensen, John. "Sistemas de Alarma Y Repuesta A Las Advertencias Al Publico," in Allen Lavell (ed.) *Ciencias Sociales Y Desastres*. Columbia: La Red, 1995, pp 45-59. (in spanish).

Sorensen, John and Dennis Mileti. "An Assessment of Pre-emergency Information Programs For Nuclear Power Plant Accidents," pp. 311- 336 in *Preparing for Nuclear Power Plant Accidents*. Dominic Golding, Jeanne Kasperson and Roger Kasperson (eds.). Boulder, CO: Westview Press, 1995.

Mileti, Dennis and John Sorensen. "Assessing Warning Systems for Nuclear Power Plant Accidents", pp. 337 -375 in *Preparing for Nuclear Power Plant Accidents*. Dominic Golding, Jeanne Kasperson and Roger Kasperson (eds.). Boulder, CO: Westview Press, 1995.

Rogers, George, John Sorensen and Annetta Watson. "Protecting Civilian Populations During Chemical Agent Emergencies," in *Chemical Warfare Agents*. S. Somani (ed.) London: Academic Press 1992, pp. 357-386.

Rogers, George and John Sorensen. "Diffusion of Emergency Warning: Comparing Empirical and Simulation Results," in C. Zervos (ed.) *Risk Analysis*, New York: Plenum Press, 1991, pp. 117-134.

Rogers, George, John Sorensen and Jonathan Morell. "Using Information Systems in Emergency Management," In J. Morell and M. Flesher (eds.), *Advances in the Implementation and Impact of Computer Systems* JAI Press 1991; pp. 161-181.

Sorensen, John. "Society and Emergency Preparedness: Looking From the Past Into the Future," in Andrew Kirby (ed.) *Hazard and Society*. Tucson, AZ: University of Arizona Press, 1991.

Sorensen, John and Dennis Mileti. "The Effectiveness of Warning Systems in Latin America" in B. Lima (ed.) *Psychological Consequences of Disaster: The Latin America Experience*. Chicago: Hispanic American Family Center, 1988, pp. 187-198, (in Spanish).

Sorensen, John and Dennis Mileti. "Risk Communication For Emergencies, in Roger Kasperson and Peter Stallen (eds.). *Communicating Risks to the Public: International Perspectives*. Kluwer

Academic Publishers 1990, pp. 369-394.

Mileti, Dennis and John Sorensen. "Planning and Implementing Warning Systems," in Mary Lystad (ed.), *Mental Health Care In Mass Emergencies: Theory and Practice*. New York: Brunner/Mazel Psychological Stress Series, 1988, pp. 321-345.

Sorensen, John and Dennis Mileti. "Programs to Encourage Precautionary Behavior in Natural Disasters: Review and Evaluation," in Neil Weinstein (ed.), *Taking Care: Why People Take Precautions*. Cambridge: Cambridge University Press, 1987, pp 208-230.

Mileti, Dennis and John Sorensen. "Why People Take Precautions Against Natural Disaster," in Neil Weinstein (ed.), *Taking Care: Why People Take Precautions*. Cambridge: Cambridge University Press, 1987, pp. 189-207.

Sorensen, John "Evaluating the Effectiveness of Warning Systems for Nuclear Power Plant Emergencies: Criteria and Application" in Michael Pasqualetti and David Pijawka (eds.), *Nuclear Power: Assessing and Managing Hazardous Technologies*. Boulder: Westview, 1984, pp. 259-277.

Sorensen, John, Janice Hutton and Dennis Mileti, "Institutional Management of Risk Information Following Earthquake Predictions," in K. Oshida (ed.), *Earthquake Prediction*, Tokyo, Japan: Terra Scientific Publishing (for UNESCO), 1985.

Hutton, Janice, John Sorensen and Dennis Mileti. "Social Factors Affecting the Response of Groups to Earthquake Prediction: Implications for Public Policy," in K. Oshida (ed.), *Earthquake Prediction*, Tokyo, Japan: Terra Scientific Publishing (for UNESCO), 1985.

Mileti, Dennis, John Sorensen and Janice Hutton. "Factors Affecting Earthquake Warning--Dissemination System Effectiveness," in K. Oshida (ed.), *Earthquake Prediction*, Tokyo, Japan: Terra Scientific Publishing (for UNESCO), 1985.

Sorensen, John. "Alternative Means of Coping with National Energy Emergencies," in R. Fazzolare and C. Smith (eds.), *Beyond the Energy Crisis: Opportunity and Challenge*. Oxford: Pergamon Press, 1981, pp. 385-395.

Copenhaver, Emily et al. "Review of Institutional and Socioeconomic Issues for Radioactive Waste Repository Siting," in P. Hoffman (ed.), *Advances in the Science and Technology of the Management of High-Level Nuclear Wastes*. Columbus: Office of Nuclear Waste Isolation, 1984, pp. 108-131.

Hutton, Janice, John Sorensen, and Dennis Mileti, "Earthquake Prediction and Public Reaction," in T. Rikitake (ed.), *Current Research in Earthquake Prediction*, Tokyo, Japan: Center for Academic Publications, 1981, pp. 129-166.

Sorensen, John and White, Gilbert. "Natural Hazards: A Cross-Cultural Perspective," in Irwin Altman, Amos Rapaport and Julian Wohwill (eds.), *Human Behavior and the Environment:*

Environment and Culture, New York: Plenum Press, 1980, pp. 279-318.

Journal Articles (refereed)

Sorensen, John. "Risk Communication and Terrorism," *Biosecurity and Bioterrorism*, Vol. 2, No. 3. 2004, pp. 229-231.

Dale, Virginia, Steve Bartell, Robin Brothers and John Sorensen. "Systems Approach to Environmental Security," *EcoHealth*: Vol. 1, No. 2, 2004, pp 119-123.

Sorensen, John, Barbara Vogt, and Barry Shumpert. "Planning Protective Action Decision Making: Evacuate or Shelter-In-Place," *Journal of Hazardous Materials*, Vol. 109, 2004, No. 1, pp. 1-11.

Sorensen, John "Hazard Warning Systems: A Review of 20 Years of Progress," *Natural Hazards Review*, Vol. I, No. 2. 2000, pp. 119-125.

Sorensen, John, Sam Carnes and George Rogers. "An Approach for Deriving Emergency Planning Zones for Chemical Stockpile Emergencies," *Journal of Hazardous Materials*, Vol 30. 1992, pp. 223-242.

Mileti, Dennis, Paul O'Brien and John Sorensen. "Towards an Explanation of Mass Care Shelter Use In Evacuations," *International Journal of Mass Emergencies and Disasters*, Vol. 10, No. 1, 1992, pp.25-42.

Sorensen, John "When Shall We Leave: Factors Affecting the Timing of Evacuation Departures," *International Journal of Mass Emergencies and Disasters*, Vol. 9, No. 2, 1991, pp. 153-165.

Rogers, George John and Sorensen. "Adoption of Emergency Planning Practices for Chemical Hazards in the United States", *Journal of Hazardous Materials*, Vol. 27, No 1, 1991, pp. 3-26.

Sorensen, John and George Rogers. "Chemical Fears: The Social Effects of the Chemical Stockpile Disposal Program," *Environmental Professional* Vol.11, 1989, pp. 385-395.

Rogers, George et al. "Emergency Planning For the Chemical Weapons Accidents," *Environmental Professional*, Vol.11, 1989, pp. 396-408.

Sorensen, John and Dennis Mileti. "Warning Systems for Nuclear Power Plant Emergencies," *Nuclear Safety* Vol. 30, No. 3, 1989, pp. 358-370.

Sorensen, John and Dennis Mileti. "Warning and Evacuation: Answering Some Basic Questions," *Industrial Crisis Quarterly*, Vol. 2, No. 3&4, 1988, pp. 195-210.

Rogers, George and John Sorensen. "Public Warning and Response in Two Hazardous Materials Accidents," *Journal of Hazardous Materials* Vol. 22, No. 1, 1989, pp. 57-74.

Rogers, George and John Sorensen. "Diffusion of Emergency Warnings," *Environmental Professional*, Vol.10, 1988, pp. 281-294.

Sorensen, John and Barbara Vogt. "Emergency Planning for Nuclear Accidents: Contentions and Issues," *Journal of the Washington Academy of Sciences*, Vol. 78, No 2, June, 1988, pp. 210-225.

Sorensen, John and George Rogers. "Community Preparedness for Chemical Emergencies: A Survey of U.S. Communities," *Industrial Crisis Quarterly*, Vol. 2, No. 2, 1988, pp. 89-108.

Mileti, Dennis and John Sorensen. "Determinants of Organizational Effectiveness in Crisis," *The Columbia Journal of World Business*, Vol. XXII, No. 1, 1987, pp 13-21.

Sorensen, John and Dennis Mileti. "Decision Making Uncertainties in Emergency Warning System Organizations," *International Journal of Mass Emergencies and Disasters*, Vol. 5, No. 1, 1987, pp 33-61.

Sorensen, John. "Evacuations Due to Chemical Accidents," *Journal of Hazardous Materials* , Vol. 14, 1987, pp. 247-257.

Soderstrom, Jon, Emily Copenhaver, Marilyn A. Brown and John Sorensen. "Improving Technological Innovation Through Laboratory/Industry Cooperative R&D," *Policy Studies Review*, Vol. 5, No. 1, 1985, pp. 133-144.

Brown, Marilyn, Jon Soderstrom, Emily Copenhaver, and John Sorensen. "A Strategy for Accelerating the Adoption of Energy Conservation Innovations," *Journal of Technology Transfer*, Vol. 10, No. 1, 1985, pp. 35-50.

Sorensen, John, Dennis Mileti and Emily Copenhaver. "Inter and Intraorganizational Cohesion in Emergencies," *International Journal of Mass Emergencies and Disasters*, Vol. 3, 1985, pp. 27-52.

Sorensen, John, Brad Richardson and Jon Soderstrom. "Explaining the Psychological and Social Impacts of a Nuclear Power Plant Accident," *Journal of Applied Social Psychology*, Vol. 17 No. 1, 1987, pp. 16-37.

Sorensen, John, Emily Copenhaver and Marty Adler, "Organizational Interfaces in Emergency Planning for Nuclear Power Plants," *Nuclear Safety*, Vol. 26, No. 3, 1985, pp. 273-285.

Soderstrom, E. Jon. John Sorensen, Emily Copenhaver and Sam Carnes. "Risk Perception in an Interest Group Context: An Examination of the TMI Restart Issue," *Risk Analysis*, Vol. 4, No. 3, 1984, pp. 231-244.

Sorensen, John. "Knowing How to Behave Under the Threat of Disaster," *Environment and Behavior*, Vol. 15, No. 4, 1983, pp. 438-457.

Carnes, Sam et al. "Incentives and Nuclear Waste Siting: Prospect and Constraints," *Energy Systems and Policy*, Vol. 7, No. 4, 1983, pp. 323-351.

Sorensen John. Sam Carnes and Jon Soderstrom. "Sweet for the Sour: Incentives in Environmental Mediation," *Environmental Management*, Vol. 8, No. 2, 1984, pp. 287-294.

Sorensen, John. "Managing Energy Emergencies," *Geoforum*, Vol. 14, No. 1, 1983, pp. 15-24.

Sorensen, John. "Earthquake Predictions: A Socioeconomic View," *Issues in Engineering--Journal of Professional Activities*, American Society of Civil Engineers, Vol. 106, No. E13, July 1980, pp. 257-263.

Sorensen, John and Phillip Gersmehl. "Volcanic Hazard Warning System: Persistence and Transferability," *Environmental Management*, March 1980, Vol. 4, No. 2, pp. 125-136.

Other Published Papers

Franzese, Oscar and John Sorensen. Fast Deployable System for Consequence Management: The Emergency Evacuation Component. *Proceedings of the 2004 ITS Safety and Security Conference*, Miami Beach, FL, 2004.

Sorensen, John "Adoption and Maintenance of Warning Systems," in *Facing the Challenge The U.S. National Report to the IDNR World Conference on Natural Disaster Reduction, Yokohama, Japan, May 23-27, 1994*. Washington DC: National Academy Press, 1994, pp. 56-57.

Sorensen, John. "Modeling Protective Action Dose Reduction," *Cameo Today*, Vol. 4, No. 1, November, 1993, pp. 11-12.

Sorensen, John, George Rogers and Michael Meador. "Modeling Protective Action Decisions for Chemical Weapons Accidents," in J. Sullivan and B. Clymer (eds.) *Managing Risk with Computer Simulation*. San Diego: Society for Computer Simulation, 1992, pp. 30 - 35.

Southworth, Frank and John Sorensen. "Modeling in Emergency Response Planning: Some Developments and Opportunities," in *Proceedings of the Emergency Planning 91 Conference*. University of Lancaster, England, 1991.

Sorensen, John, John Reed and George Rogers. "Establishing functional requirements for emergency management information systems," in J. Sullivan and B. Clymer (eds) *Simulation in Emergency Management and Engineering*. San Diego: Society for Computer Simulation, 1991.

Sorensen, John. "Human Behavior In Emergencies," *Oak Ridge National Laboratory Review* Vol. 23, No. 1, 1990, pp. 30-38.

Sorensen, John. "The Cheyenne Flash Flood: Were the Warnings Effective" *Oak Ridge National Laboratory Review* Vol. 23, No. 1, 1990, pp. 39-41.

Sorensen, John. "Psychosocial Effects of Restarting a TMI Reactor," *Oak Ridge National*

Laboratory Review Vol. 23, No. 1, 1990, pp. 41-42.

Adler, Vernon, John Sorensen and G. Rogers. "Chemical and Nuclear Emergencies: Interchanging Lessons Learned From Planning and Accident Experiences," In *Proceedings of the OECD Workshop on Technical Aspects of Emergency Planning*, Brussels, Belgium, June, 1989, Forthcoming.

Sorensen, John and Wolf Dombrowsky. "Risk communications for emergencies and disasters" in Jungermann, H., R. E. Kasperson, and P. M. Wiedermann (eds), *Risk Communications: Proceedings of the International Workshop on Risk Communications*. Julich, FRG: Kernforschungsanlage, 1988, pp. 155-158 .

Sorensen, John, George Rogers and Denzel Fisher. "Public Alert and Warning Systems for Chemical Emergencies," *Proceedings of the AIChE Hazardous Material Spills Conference*, 1988. In press.

Mileti, Dennis and John Sorensen. "Public Warning Needs," in *The US Geological Survey's Role in Hazard Warnings* (USGS Open File Report No. 87-269). Reston, VA: US Geological Survey, 1987, pp. 9-75.

Sorensen, John. "Evacuation Behavior in Nuclear Power Plant Emergencies," in *Proceedings of the American Nuclear Society Meeting Radiological Accidents - Perspectives and Emergency Planning, 1987*, pp. 351-356..

Sorensen, John. "Warning Systems in the Cheyenne Flash Flood," in E. Gruntfest (ed.), *What We Have Learned Since the Big Thompson Flood*. Boulder: Institute for Behavioral Sciences, University of Colorado, 1987, pp 174-183.

Sorensen, John. "Elimination of Transportation Alternatives in the M-55 Rocket Disposal Program," *Papers and Proceedings of the Applied Geographic Conference*, Vol. 9, 1986, 207-211.

Sorensen, John. "Emergency Response to Oil and Gas Facility Disruption," *Papers and Proceedings of the Applied Geography Conference*, Vol. 8, 1985, 194-197.

Sorensen, John. "Public Confidence in Local Management Officials: Organizational Credibility and Emergency Behavior," in *Proceedings of a Conference on Nonradiological Evacuation Risks During a Nuclear Plant Emergency*. University Park: Pennsylvania State University, 1984, pp. 102-108.

Sorensen, John. "Organizational Interaction in Radiological Emergency Planning," *Papers and Proceedings of Applied Geography Conferences*, Vol. 6, 1983, pp. 282-290.

Sorensen, John. "Emergency Planning for Rare Events: Some Behavioral Science Lessons for Volcano Hazard Management," in R. Martin and J. Davis (eds.), *Status of Volcanic Prediction and Emergency Response Capabilities in Volcanic Hazard Zones of California*. Sacramento:

California, Division of Mines and Geology (Special Publication No. 63), 1982, pp. 153-168.

Carnes, Sam et al. "Framework for Evaluating the Utility of Incentive Systems for Radioactive Waste Repository Siting," in R. Post (ed.), *Waste Isolation in the U.S. and Elsewhere*, Technical Programs and Public Communications, Tucson: University of Arizona, 1982.

Sorensen, John. "Emergency Response to the Mt. St. Helens Eruption: March 20 to April 10, 1980." Natural Hazards Working Paper Number 43. Boulder: University of Colorado, Institute for Behavioral Science, 1981.

Articles Reprinted

"Emergency Planning For the Chemical Weapons Accidents," reprinted in Susan L. Cutter (ed.), *Environmental Risks and Hazards*, Englewood Cliffs, NJ: Prentice Hall, 1994.

"Incentives and Nuclear Waste Siting: Prospect and Constraints," in R. Lake (ed.) *Resolving Environmental Conflict*. New Brunswick, NJ: Rutgers University Press, 1986.

"Institutional Management of Risk Information Following Earthquake Predictions," in Song Shouquan and Li Huaying (eds.), *A Collection of Papers On World Seismo-Sociology*, Beijing, China: Institute of Geophysics, State Seismological Bureau (Reprinted in Chinese), pp. 119-126.

"Factors Affecting Earthquake Warning Dissemination System Effectiveness," in Song Shouquan and Li Huaying (eds.), *A Collection of Papers On World Seismo-Sociology*, Beijing, China: Institute of Geophysics, State Seismological Bureau (Reprinted in Chinese), pp. 139-143.

"Social Factors Affecting the Response of Groups to Earthquake Prediction: Implications for Public Policy," in Song Shouquan and Li Huaying (eds.), *A Collection of Papers On World Seismo-Sociology*, Beijing, China: Institute of Geophysics, State Seismological Bureau (Reprinted in Chinese), pp. 17-22.

"Earthquake Prediction: A Socioeconomic View," *Recent Developments in World Seismology*, 1982, No. 5, Published by the Institute of Geophysics, State Seismological Bureau, Beijing, China (Reprinted in Chinese), pp. 20-23.

Software Programs

MAPADRE: Multiple Agent Protective Action Dose Reduction Estimator. Simulation model developed for the Chemical Safety and Hazard Investigation Board. Project Manager and Conceptual Design, V1, 2000.

PADRE: Protective Action Dose Reduction Estimator. Simulation model developed for the Federal Emergency Management Agency. Project Manager and Conceptual Design, Ver. 1. 1996, V2, 1999.

EMIS: Emergency Management Information System. Server/client data base developed for the Department of the Army. Project Manager, 1992.

OREMS: Oak Ridge Evacuation Modeling System. Simulation model developed for the Federal Emergency Management Agency. Project Manager, V.2, 1996, V2.6 1999.

TPE: Technical Planning And Evaluation. Computer Based Training Developed for the Federal Emergency Management Agency. Project Manager and Author, 1995.

Emergency Planners Companion. Interactive CD-ROM series developed for the Federal Emergency Management Agency. Project Manager and Conceptual Design, 1996 -2002

Videos

Comprehensive Emergency Planning for Technological Hazards. Developed for the Federal Emergency Management Agency. Project Manager, 2010-2011.

Emergency Planning for People with Access and Functional Needs. Developed for the Federal Emergency Management Agency. Project Manager, 2010.

Remediation From A Terrorist Attack Against a Major Airport, Sandia National Laboratories, 2010.

Communicating Public Information in Emergencies. Developed for the Federal Emergency Management Agency. Project Manager, 2009.

Operations Level Training: A Refresher For Responders. Developed for the Federal Emergency Management Agency. Project Manager, 2008.

Animals in Emergencies: What Owners Need to Know: Developed for the Department of Homeland Security. Project Manager, 2007.

Animals in Emergencies: What Planners Need to Know: Developed for the Department of Homeland Security. Project Manager, 2007.

Evacuation Planning. Developed for the Department of Homeland Security. Project Manager, 2006

Exposure and Contamination. Developed for the Federal Emergency Management Agency. Project Manager, 2005.

CSEPP Exercise Evaluation. Developed for the Federal Emergency Management Agency. Project Manager, 2004.

Business Shelter-In-Place. Developed for the Federal Emergency Management Agency. Project Manager, 2004.

Don't Be A Victim: Medical Management of Patients Contaminated With Chemical Agents. Developed for the Federal Emergency Management Agency. Project Manager, 2003.

Residential Shelter-In-Place. Developed for the Federal Emergency Management Agency. Project Manager, 2002.

RE-ACT FAST II: Refresher Training for Agent Characteristics and Toxicology, First Aid and Special Treatment. Developed for the Federal Emergency Management Agency. Project Manager, 2001.

RE-ACT FAST: Refresher Training for Agent Characteristics and Toxicology, First Aid and Special Treatment. Developed for the Federal Emergency Management Agency. Project Manager, 1999.

Some Assembly Required, How Models are Built and Used. Developed for the Federal Emergency Management Agency. Project Manager, 1996.

An Introduction to Protective Action Decision Making. Developed for the Federal Emergency Management Agency. Project Manager, 1995.

ACT FAST: Agent Characteristics and Toxicology, First Aid and Special Treatment. Developed for the Federal Emergency Management Agency. Project Manager, 1993.

Book Reviews

Review of *Emergency Management Strategies for Maintaining Organizational Integrity*, by T. Drabek. *International Journal of Mass Emergencies and Disasters*, Vol. 10, No. 1, pp. 233-234.

Review of *Managing Disasters: Strategies and Policy Perspectives* by L. Comfort. *Bulletin of the American Meteorological Society*, Vol. 70, 1989.

Review of *Human System Response To Disaster*, by T. Drabek. *Environmental Management* Vol. 11, No. 5, pp. 707-708.

Review of *Disaster Management* by R. Perry and A. Mushkatel. *Contemporary Sociology*, Vol. 16, No. 1, 1987, p. 67.

Review of *Natural Hazards in Australia*, edited by R. Heathcote and B. Thom. *Geographical Review*, July 1981, pp. 370-371.

Review of *Community Response to Coastal Erosion*, by J.K. Mitchell. *The Professional Geographer*, November, 1975, pp. 501-502.

Reports

Mileti, Dennis and John Sorensen. *A Guide to Public Alert and Warnings for Dam and Levee Emergencies*. US Army Corp of Engineers, Risk Management Center, Davis, CA, 2015.

Gregg, Chris E., John Sorensen, Barbara-Vogt Sorensen, David M. Johnston
Recommended Revisions to Warning Product Prototypes of the NWS National Tsunami Warning Center. National Weather Service, Tsunami Program, Washington DC. April, 2014.

Barbara Vogt and John Sorensen. *Results of an Investigation of the Effectiveness of Using Reverse Telephone Emergency Warning Systems in the October 2007 San Diego Wildfires*. Oak Ridge National Laboratory, ORNL/TM-2009/154, June 2009.

Brown, D. L. et al. *Computer Simulation for Emergency Management*. Livermore CA: Lawrence Livermore National Laboratory, URCL-CONF-208718, 2004.

Sorensen, John and Barbara Vogt. *How Clean Is Safe: Lessons Learned From Decontamination Experiences*. Oak Ridge National Laboratory, ORNL/TM-2002/178, October 2002.

Sorensen, John, Barbara Vogt and Barry Shumpert. *Planning Protective Action Decision Making: Evacuate or Shelter-In-Place?* Oak Ridge National Laboratory, ORNL/TM-2002/144. 2002.

Sorensen, John and Barbara Vogt. *Will Duct Tape and Plastic Really Work? Issues Related To Expedient Shelter-In-Place*, Oak Ridge National Laboratory, ORNL/TM-2001/154, 2001.

Sorensen, John and Barbara Vogt. *Expedient Respiratory and Physical Protection: Does a Wet Towel Work to Prevent Chemical Warfare Vapor Infiltration?*, Oak Ridge National Laboratory, ORNL/TM-2001/153, 2001.

Sorensen, John and Barbara Vogt. *Interim Report on Lessons Learned From Decontamination Experiences*. Oak Ridge National Laboratory, ORNL/TM-2000/342, 2000.

Sorensen, John and Barbara Vogt. *Description of Survey Data Regarding The Chemical Repackaging Plant Accident, West Helena, Arkansas*, Oak Ridge National Laboratory, ORNL/TM-13722, 1999.

Vogt, Barbara et al. *Assessment of Housing Stock Age in the Vicinity of Chemical Stockpile Sites*. Oak Ridge National Laboratory, ORNL/TM-13742, 1999.

Vogt, Barbara, Harriet Hardee and John Sorensen. *Compilation of Demographic Data for the Chemical Stockpile Emergency Preparedness Program*. Oak Ridge National Laboratory, ORNL/TM-13571, February, 1998.

Shumpert, Barry, Annetta Watson, George Rogers, John Sorensen, Jack Long, and Remy Brooks. *Planning Guidance for the Chemical Stockpile Emergency Preparedness Program*, Oak Ridge National Laboratory, ORNL 6764. October, 1996.

Vogt, Barbara, Harriet Hardee and John Sorensen. *Environmental Assessment and Social Justice*, Oak Ridge National Laboratory, ORNL TM-12919, March, 1995.

Barbara Vogt and John Sorensen. *Risk Communication and the Chemical Stockpile Emergency Preparedness Program*. Oak Ridge National Laboratory, ORNL 6824. September, 1994.

Sorensen, John and Barbara Vogt. *Evacuation Research: A Reassessment*. Oak Ridge National Laboratory, ORNL/TM-11908. November, 1992.

Sorensen, John and Barbara Vogt. *Preparing EBS Messages*. Oak Ridge National Laboratory, ORNL/TM-12163. September, 1992.

Sorensen, John. *Assessment of the Need for Dual Indoor/Outdoor Warning Systems and Enhanced Tone Alert Technologies In the CSEPP*. Oak Ridge National Laboratory, ORNL/TM-12095. May 1992.

Mileti, Dennis and John Sorensen. *Communication of Emergency Public Warnings*, Oak Ridge National Laboratory, ORNL-6609, 1990.

Rogers, George, John Sorensen and Barry Shumpert. *Description of Interview Data Regarding Pittsburgh and Confluence Toxic Chemical Accidents*. ORNL/TM-11599, 1990.

Rogers, George, Annetta Watson, John Sorensen, Ron Sharp and Sam Carnes. *Evaluating Protective Actions for Chemical Agent Emergencies*. Oak Ridge National Laboratory, ORNL-6615, 1990.

Wilbanks, Tom et al. "Decision Making," in William Fulkerson, *Energy Technology R&D: What Could Make a Difference?*, ORNL-6541, Vol. 2, pp. 123-137, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For APG and Vicinity*. ORNL/TM-11096, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For ANAD and Vicinity*. ORNL/TM-11093, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For LBAD and Vicinity*. ORNL/TM-11099, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For NAAP and Vicinity*. ORNL/TM-11095, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For PBA and Vicinity*. ORNL/TM-11092, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For PUDA and Vicinity*. ORNL/TM-11098, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For TEAD and Vicinity*. ORNL/TM-

11094, 1989.

Carnes, Sam et al. *Emergency Response Concept Plan For UMDA and Vicinity*. ORNL/TM-11097.

Sorensen, John, George Rogers and William Clevenger. *Review of Public Alert Systems For Emergencies at Fixed Chemical Facilities*. Oak Ridge National Laboratory Report ORNL/TM-10825, 1988.

Sorensen, John. *Evaluation of Warning and Protective Action Implementation Times for Chemical Weapons Accidents*. Oak Ridge National Laboratory Report ORNL/TM-10437, 1988.

Sorensen, John, Barbara Vogt and Dennis Mileti. *Evacuation: An Assessment of Planning and Research*. Oak Ridge National Laboratory Report ORNL-6376, 1987.

Vogt, Barbara and John Sorensen. *Evacuation in Emergencies: An Annotated Guide to Research*. Oak Ridge National Laboratory Report ORNL/TM-10277, 1987.

Sorensen, John et. al. *Emergency Response to Saboteur-Induced Damage to Oil and Gas Distribution Facilities*, Oak Ridge National Laboratory Report ORNL/CF-86/253, 1986.

Sorensen, John. *Evacuations due to Chemical Accidents: Experience from 1980 to 1984*. Oak Ridge National Laboratory report ORNL/TM-9882, 1986.

Carnes, Sam et al. *Preliminary Assessment of the Health and Environmental Impacts of Transporting M-55 Rockets*, Oak Ridge National Laboratory Report ORNL-6198, 1985.

Sorensen, J. and Mileti, D. *Evacuation Decision-Making: Process and Uncertainty*, Oak Ridge National Laboratory report ORNL/TM-9692, 1985.

Brown, Marylin et al. *A Strategy for Accelerating the Use of Energy Conserving Building Techniques*. Oak Ridge National Laboratory report ORNL/TM-9630, 1985.

Soderstrom, Jon, et. al. *Enhancing Technology Transfer Through Laboratory/Industry Cooperative Research and Development*, Oak Ridge National Laboratory report ORNL-6107, 1985.

Sorensen, John et. al. *Organizational Interface in Reactor Emergency Planning and Response*, Washington, D.C., U.S. Nuclear Regulatory Commission, NUREG/CR-3524, ORNL-6016, 1984.

Sorensen, John et. al. *Restarting TMI Unit One: Social and Psychological Impacts*, Oak Ridge: Oak Ridge National Laboratory, Report No. 5891, 1983.

Carnes, S. et. al. *Incentives and the Siting of Radioactive Waste Facilities*. Oak Ridge: Oak Ridge National Laboratory, Report No. 5880, 1982.

Sorensen, J. *Evaluation of the Emergency Warning System at the Ft. St. Vrain Nuclear Power Plant*, Oak Ridge: Oak Ridge National Laboratory, Report No. 8171, 1982.

Collins, Nancy and John Sorensen. *Preliminary Considerations for State Energy Emergency Planning*, Oak Ridge: Oak Ridge National Laboratory, Technical Memorandum No. 7876, 1982.

Mileti, Dennis, Janice Hutton, John Sorensen, William Lord and Marvin Waterstone. *Analysis of Adoption and Implementation of Community Land Use Regulations for Floodplains*, a final report to the National Science Foundation, San Francisco: Woodward-Clyde Consultants, November, 1979.

White, Gilbert, et al. *Natural Hazard Management in Coastal Areas*. Washington, D.C.: U.S. Department of Commerce, Office of Coastal Zone Management, 1976.

Huffaker, Michael, et al., *Southeast Boulder County: Land Use and Environmental Impact*, Boulder: University of Colorado, Department of Geography and Boulder County Planning Department Joint Publication, 1973.

Kasperson, Roger et. al. *Decentralized Water Reuse Systems in a Water Scarce Environment: The Tourist Industry in St. Thomas, Virgin Islands*, Caribbean Research Institute, Water Pollution Report No. 13, 1971.

TECHNICAL PAPERS AND PRESENTATIONS

Gregg, Chris E, David Johnson, John Sorensen and Paul Whitmore. Application of a Tsunami Warning Message Metric to refine NOAA NWS Tsunami Warning Messages (abstract #NH52A-08.). San Francisco, American Geophysical Union, Fall Meeting, December 2013.

Apatu, Emma, Chris Gregg, Michael Lindell, John Sorensen, Joel Hillhouse, and Barbara Vogt. The September 29, 2009 Earthquake and Tsunami in American Samoa: A Case Study of Household Evacuation Behavior and the Protective Action Decision Model, presented at the Global Risk Forum (GRF) in Davos, Switzerland, April 2012.

Sorensen, John and Barbara Vogt. “Warning and Evacuation in the 2007 San Diego Wildfires”, Presented At The National Evacuation Conference, New Orleans, February 2, 2010.

Sorensen, John. “Human Response to Warnings”, Presented at the Fall Meetings of the American Geophysical Union, San Francisco, December 18, 2009.

Sorensen, John. “Public Warning Response and Messaging”, Presented at the NAS Tsunami Warning Meetings, December, 2008.

Sorensen, John and Barbara Vogt. “Unresolved Issues in Planning For Weapons of Mass

Destruction (WMD) Events”, Boulder Hazard Research Conference, July 14, 2005

Sorensen, John. “Risk Communication for Bio-terrorism”. Presented at the University of Pittsburg Center for Biosecurity, Baltimore, MD, October, 2004. (By Invitation)

Sorensen, John. “Warning America: Communicating Emergency Information. Presented at the Partnership for Public Warnings Annual Forum, June, 2004. (By Invitation)

Franzese, Oscar and John Sorensen. “Intelligent Consequence Management: Dynamic Weather Information for the Emergency Evacuation Component.” Presented at the ITS America 14th Annual Meeting, San Antonio, TX, 2004.

Franzese, Oscar and John Sorensen. Fast Deployable System for Consequence Management: The Emergency Evacuation Component. Presented at the 2004 ITS Safety and Security Conference, Miami Beach, FL, 2004.

Sorensen, John. “Risk Communication For Emergencies,” Plenary Session, Boulder Hazards Workshop, University of Colorado, Boulder CO, July 2003. (By Invitation)

Sorensen, John. “Disaster Warning and Behavior: Implications for Homeland Security”, Council of Security and Strategic Technology Organizations 2002 Conference, Washington DC, October 15, 2002. (By Invitation)

Sorensen, John. “Risk Communication and Disaster Warnings”, National Academy of Sciences Forum on Countering Terrorism, Lessons Learned From Natural and Technological Disasters, February, 28, 2002. (By Invitation)

Sorensen, John. “Sheltering In Place Versus Evacuation” EPA Chemical Emergency Preparedness and Prevention Conference, Baltimore, MD, December 11, 2001. (By Invitation)

Sorensen, John and Barbara Vogt. "How Clean is Safe," DOE Chemical and Biological National Security Program Summer Meeting, Crystal City, VA, July, 2001. . (By Invitation)

Sorensen, John and Barbara Vogt. "How Clean is Safe: Lessons Learned From Decontamination Experiences," DOE Chemical and Biological National Security Program Summer Meeting, Crystal City, VA, July, 2000. (By Invitation)

Sorensen, John. "Human Response to Warnings," presented at the 1999 Annual Meetings of the National Weather Association, Biloxi, MS, October 1999. . (By Invitation)

Sorensen, John. "Planning Tools for Chemical Agent Incidents," Pacific Disaster Conference, Lihue, Hawaii, September 1999.

Sorensen, John. "Use of Tools and Training in Emergency Planning," CSEPP National Conference, Salt Lake City, Utah, June 1999. . (By Invitation)

Sorensen, John. "Toxicology and Emergency Management," CSEPP National Conference, Salt Lake City, Utah, June 1999. . (By Invitation)

Sorensen, John. "Federal Laboratories and Disaster Mitigation," Fourth Annual IBHS Conference, Orlando, FL, October 1998. . (By Invitation)

Sorensen, John. "Emergency Management Research at ORNL," SE Regional Federal Laboratory Consortium Annual Conference, October, 1998. . (By Invitation)

Sorensen, John. "Public Compliance with Dual Warning Messages," Presented at the World Congress of Sociology, Montreal, Canada, July 1998.

Sorensen, John. "Role of the Federal Laboratory in Mitigating Disasters," Presented at the Technology Partnership for Emergency Management Conference, Argonne, IL, July 1998. . (By Invitation)

Sorensen, John. "Disaster Recovery and Technology," Presented at the Technology Partnership for Emergency Management Conference, Richland, WA, September 25, 1997.

Sorensen, John. "Protective Action Decision Making," Presented at Protecting the Public: A Conference on Protective Actions During Chemical Emergencies, Charleston West Virginia, September 20, 1995. . (By Invitation)

Sorensen, John. "Protective Actions and the Chemical Stockpile Emergency Preparedness Program," Paper presented at the Conference on Protective Action Decision Making in Nuclear Power Plant Emergencies, Michigan State University, Lansing, MI, May 18, 1995. . (By Invitation)

Sorensen, John. "Decision Software for Sheltering-In-Place," EPA/ NOAA CAMEO, 1995, Louisville, KY March 16, 1995. . (By Invitation)

Sorensen, John. "Public Warning Systems and the Psychology of Individual Response," Presented at the Radiological Emergency Preparedness Workshop, Richmond, VA, January 18, 1995. . (By Invitation)

Sorensen, John. "How Effective Are Warning System Technologies," Paper presented at the World Congress of Sociology, Bielefeld, Germany, July, 1994.

Sorensen, John. "Automation in the Chemical Stockpile Emergency Preparedness Program." presented at the DOE TRADE Emergency Preparedness Meeting, Savannah River, GA, May, 1993.

Sorensen, John. "Warning Systems And Public Warning Response (Sistemas de Alarma y Repuesta a las Advertencias al Publico)." Paper prepared for the workshop, Socioeconomic Aspects of Disaster in Latin America San Jose, Costa Rica, January 1993. . (By Invitation)

Sorensen, John. "Technical Issues in Hazard Analysis," EPA/ NOAA CAMEO Workshop, Chicago IL, January 13, 1993. . (By Invitation)

Sorensen, John. "Technical Support for Chemical Emergency Planning," Natural Hazards Workshop, Boulder, Colorado, July 1992.

Sorensen, John. "Modeling Protective Action Decisions for Chemical Weapons Accidents," Orlando, Florida, Society for Computer Simulation, April, 1992.

Sorensen, John and Barbara Vogt. "Risk Communication and Chemical Weapons," presented at the Society for Risk Analysis Annual Meeting, Baltimore, MD, December 1991.

Sorensen, John. "Evacuation Planning For The General Population," presented at EMEX91, Las Vegas, Nevada, January, 1991. . (By Invitation)

Reed, John. John Sorensen and George Rogers. "Establishing functional requirements for emergency management information systems," San Diego, CA, Society for Computer Simulation, January 1991.

Sorensen, John. "Electronic Management of Risk Information In Emergencies," presented at the Society For Risk Analysis Annual Meeting, New Orleans, October, 1990.

Sorensen, John. "Protective Actions for Extremely Toxic Chemical Accidents," presented at the Emergency Planning Workshop, Middlesex Polytechnic University, London, England, October 1989 (by invitation).

Sorensen, John. "Communicating Natural and Technological Risks," presented at conference on The Social Costs of Disaster , Emergency Planning Canada, Arnprior, Ottawa, Canada, September 1989 (by invitation).

Sorensen, John. "Research to Support the Chemical Stockpile Emergency Planning Program," Hazards Workshop, Boulder, Colorado, July 1989 (by invitation).

Adler, Vernon, John Sorensen, and George Rogers. "Chemical and Nuclear Emergencies: Interchanging Lessons Learned From Planning and Accident Experiences," presented at the OECD Workshop on Technical Aspects of Emergency Planning, Brussels, Belgium, June, 1989.

Rogers, George and John Sorensen. "Diffusion of Emergency Warnings," Society for Computer Simulation Multi-conference, San Diego, January 5, 1989.

Sorensen, John. "Technical Research Regarding Sheltering in a Chemical Accident," presented at the Conference on the Effective Use of Sheltering As a Potential Option to Evacuation During Chemical Release Emergencies, National Emergency Training Center, Emmitsburg, MD, November 30, 1988 (by invitation).

Sorensen, John. "Risk Communications for Emergencies and Disasters," presented at the

International Symposium on Risk Communications, Nuclear Research Center, Julich, FDR, October, 17, 1988 (by invitation).

Sorensen, John and George Rogers, G. "Community Preparedness for Chemical Accidents," presented at the Society for Risk Analysis Annual Meetings, Washington DC, October 31, 1988 (by invitation).

Rogers, George and John Sorensen. "Diffusion of Emergency Warnings," presented at the Society for Risk Analysis Annual Meetings, Washington DC, October 31, 1988 (by invitation).

Sorensen, John. "Sociological Issues Related to Emergency Planning," presented at the Harvard School of Public Health, Boston, MA, July 14, 1988 (by invitation).

Sorensen, John. "Warning Systems Research," presented at the College of Architecture, Texas A&M University, College Station, Texas, June, 1988 (by invitation).

Sorensen, John. "A Meta-analysis of Warning Response Research," presented at the Applied Geography Conference, Knoxville, TN, October, 1987 (by invitation).

Sorensen, John and Barbara Vogt. "Emergency Planning for Nuclear Accidents: Contentions and Issues," presented at the symposium, Nuclear Radiation and Public Health Practices and Policies in the Post-Chernobyl World, Georgetown University, DC, September 19, 1987 (by invitation).

Sorensen, John. "Spatial Behavior of Victims in the 1985 Cheyenne Flash Flood," presented at the Meetings of the Association of American Geographers, Portland, April, 1987.

Lee, Russ et al. "An Empirical Model of Loss of Life in Floods," presented at the Meetings of the Association of American Geographers, Portland, April, 1987.

Sorensen, John. "Evacuation Planning for Nuclear Power Plants," presented at the American Nuclear Society Topical Meeting on Radiological Emergencies, Bethesda, Maryland, September 17, 1986.

Vogt, B. and Sorensen, J. "Convergence Behavior and Risk Perception at Mt. St. Helens," presented at the American Sociological Association Annual Meeting, New York, September 2, 1986. (By invitation).

Mileti, Dennis and John Sorensen. "Determinants of Organizational Effectiveness in Crisis," presented at the First International Conference on Industrial Crisis Management, New York, September 6, 1986.

Sorensen, John. "Warning Systems in the 1985 Cheyenne Flash Flood," presented at the Big Thompson Symposium, Boulder, Colorado, July 18, 1986.

Sorensen, John. "Emergency Response to Oil and Gas Facility Disruption," presented at the Applied Geography Conference, Denton, Texas, November, 1985.

Sorensen, John. "Liability Issues in Warning and Evacuation," presented at the Natural Hazards Workshop, Boulder, Colorado, July 1985. (By invitation).

Soderstrom, Jon and John Sorensen. "Forecasting the Psychosocial Impacts of Restarting TMI," paper presented at the Evaluation Research Society Annual Meetings, San Francisco, November, 1984.

Sorensen, John. "A Public Perspective on the Future of Nuclear Power," presented at Emergency 85 Conference, Washington, D.C., May, 1985. (By invitation).

Sorensen, John. "Evacuation Research for the Year 2000," presented at Emergency 85 Conference, Washington, D.C., May 1985.

"Evaluating Energy Research Utilization Programs," paper presented at the Seventh Applied Geography Conference, Tallahassee, Florida, November 1-3, 1984.

Sorensen, John and Brad Richardson. "Risk and Uncertainty as Determinants of Human Response in Emergencies," paper presented at "Society for Risk Analysis Annual Meeting, Knoxville, October 1-3, 1984 (by invitation).

Sorensen, John. "Public Confidence in Local Management Officials: Organizational Credibility and Emergency Behavior," paper presented at the Conference on Non-radiological Evacuation Risks During a Nuclear Power Plant Emergency, September 27-28, 1984, Penn State University (by invitation).

Sorensen, John. "Organizational Interaction in Radiological Emergency Planning," paper presented at the Sixth Annual Applied Geography Conference, Toronto, October, 1983 (By Invitation).

Sorensen, John. "Evacuation Research Issues," presented at Natural Hazards Research Workshop, Boulder, July, 1984.

Sorensen, John. "Protective Actions for Natural Hazards: A Review of Programs to Encourage Adoption of Adjustments," paper prepared for a Workshop on Protective Action, Rutgers University, June, 1984 (By Invitation).

Sorensen, John. "Utilization of Research on Natural and Technological Hazards," paper presented at the 80th Annual Meetings of the Association of American Geographers, Washington, D.C., April, 1984.

Sorensen, John. "Perceived Risks of Restarting TMI Unit One Nuclear Power Plant," paper presented at the 79th Annual Meetings of the Association of American Geographers, Denver, Colorado, April, 1983.

Sorensen, John and Jon Soderstrom. "Forecasting Social and Psychological Impacts of Restarting

TMI-1: Theory and Methods," paper presented at the Third International Forum on the Human Side of Energy, Knoxville, Tennessee, August 2-3, 1982 (By Invitation).

Sorensen, John. "Public Hazard Education and Earthquake Mitigation Policy," paper presented at the workshop on Hazards Research, Policy Development, and Implementation Incentives: Focus on Urban Earthquakes, Redlands, California, June, 1982 (By Invitation).

Sorensen, John. "Decisions in Emergencies: A Comparison of Volcano Hazard in Hawaii and the Cascades," paper presented at the Fourth Annual Applied Geography Conference, Tempe, Arizona, October 22-25, 1981 (By Invitation).

Sorensen, John. "Managing Energy Emergencies," paper prepared for the 77th Annual Meetings of the Association of American Geographers, Los Angeles, April 1981.

Sorensen, John. "Hurricane Management: The Issues of Inexperience," paper presented at the 76th Annual Meetings of the Association of American Geographers, Louisville, April, 1980.

Sorensen, John. "Emergency Response at Mt. St. Helens," Presented at 5th Natural Hazards Workshop, Boulder, Colorado, July, 1980 (By Invitation).

Murton, Brian and John Sorensen, "Natural Hazard Education in Hawaii," paper prepared for the Meetings of the National Council of Geographic Education, Mexico City, November 1979 (By Invitation).

Sorensen, John. "Earthquake Prediction: Balancing Social Response with Scientific Risk," paper prepared for the 75th Meetings of the Association of American Geographers, Philadelphia, 22-25 April, 1979. Abstract: p. 218 of the Program Abstracts.

Sorensen, John, Hutton, Janice and Dennis Mileti, "Social Factors Affecting the Response of Groups to Earthquake Prediction: Implications for Public Policy," paper presented at the International Symposium on Earthquake Prediction, UNESCO, Paris, France, 2-6 April, 1979. Abstract: p. 65 of the Abstract of Contributed Papers.

Hutton, Janice, John Sorensen and Dennis Mileti "Institutional Management of Risk Information Following Earthquake Predictions," paper presented at the International Symposium on Earthquake Prediction, UNESCO, Paris, France, April 1-6, 1979. Abstract: p. 92 of the Abstracts of Contributed Papers.

Hutton, Janice, John Sorensen and Dennis Mileti, "Factors Affecting Earthquake Warning--Dissemination System Effectiveness," paper presented at the International Symposium on Earthquake Prediction, UNESCO, Paris, France, April 2-6, 1979. Abstract: p. 97 of the Abstract of Contributed Papers.

Sorensen, John. "Contextual Factors in Community Decision Making: A Geographical Perspective," paper presented for the "Workshop on Community Adoption of Land Use Controls for Floods," sponsored by the National Science Foundation, San Francisco, January 16-17, 1978

(By Invitation).

Sorensen, John. "The Role of Communication in Community Hazard Adjustment Decisions," paper prepared for the "Workshop on Community Adoption of Land Use Controls for Floods," sponsored by the National Science Foundation, San Francisco, January 16-17, 1978 (By Invitation).

Sorensen, John. "Resource Management Experiences with Implications for Nuclear Power Development Decisions," paper presented at the 52nd Annual Meeting of the Southwestern and Rocky Mountains Division, A.A.A.S., Tucson, Arizona, April 28 - May 1, 1976. Abstract: p. 77 of the Journal of the Arizona Academy of Science, April 1976.

OTHER PROFESSIONAL CONFERENCE, WORKSHOP, AND SPEAKING ACTIVITIES

Participant, START Center, Workshop on Emergency Warning Messaging. Washington DC, 2013.

Participant, START Center, Mobile Alerts Messaging Workshop, Atlanta, 2012.

Participant, Hurricane Katrina Summit, Mississippi State University, November, 2005

Discussant, NCAR workshop on Social Science Research on Hurricanes, Boulder, Colorado, July 2005.

Chair, Session on Legal Issues and Disasters, Natural Hazards Workshop, Boulder, Colorado, July, 2004.

Speaker, Session on Homeland Security Threat Advisory System, Natural Hazards Workshop, Boulder, Colorado, July, 2002.

Participant, National Academy of Sciences, Committee on Atmospheric Sciences, Workshop on Atmospheric Dispersion Models for Nuclear, Chemical, and Biological Threats, Woods Hole, MA, July 2002.

Speaker, US-Israeli Population Protection Workshop, FEMA, June, 2002.

Speaker, CSEPP National Conference, Session on Protective Action Planning. June 2002.

Leader, Emergency Management Sector, DOE Energy Assurance Exposition, Washington, DC, February, 2002.

Speaker, CSEPP National Conference, Session on Emergency Planning. July, 2001.

Speaker, CSEPP Shelter-In-Place Workshop, Denver, CO, June, 2001.

Presenter, EIIP Virtual Forum on Public Education and Information, The Emergency Planners Companion, February, 2000.

Co-Chair, 1999 FEMA Technology Partnership for Emergency Management Workshop and Exhibition, Gatlinburg, TN, May 1999.

Member, 1998 CSEPP National Conference Planning Committee.

Speaker, Session on Consistent Information for Warning, Natural Hazards Workshop, Denver, Colorado, July, 1997.

Chair, Session on Community Based Organizations: Their Role in Mitigation, Natural Hazards Workshop, Denver, Colorado, July, 1997.

Poster Session (with B. Vogt), Methods for Identifying Vulnerable Population Sub-groups in Hazardous Areas, Pan Pacific Hazard Conference, Vancouver, July, 1996.

Speaker, Research Needs for Prediction, Forecast, Warning, and Emergency Planning, Plenary Session, Natural Hazards Workshop, Denver, Colorado, July, 1996.

Chair, Session on Prediction, Forecast, Warning, and Emergency Planning, Second Assessment of Research on Natural Hazards, Natural Hazards Workshop, Denver, Colorado, July, 1996.

Member, 1996 CSEPP National Conference Planning Committee.

Chair, Session on Prediction, Forecast, Warning, and Emergency Planning, Second Assessment of Research on Natural Hazards, Natural Hazards Workshop, Boulder, Colorado, July, 1995.

Member, 1995 CSEPP National Conference Planning Committee.

Speaker, "What's new in CSEPP", Environmental Analysis Section Seminar, ORNL, March, 1994.

Member, 1994 CSEPP National Conference Planning Committee.

Co-Organizer, CSEPP Planning Workshop, Berryville, VA, December 1993.

Speaker, "The Emergency Planning Process," FEMA CSEPP Planning Workshop, Berryville, VA, December 1993.

Speaker, "Use of Models in Emergency Planning," FEMA CSEPP Planning Workshop, Berryville, VA, December 1993.

Speaker, "The Tampa Bay Tornado," Emergency Planning Seminar, Energy Division, ORNL, September 1993.

Co-Organizer, 1993 Chemical Stockpile Disposal Program National Conference, Baltimore, MD, May, 1993.

Presenter, Overview of the CSEPP Planning Standards, CSEPP Joint Planning / Automation Workshop, Denver, CO, March 1993.

Discussant, Session on CSEPP Planning Issues, CSEPP National Conference, Baltimore, MD, May 1993.

Participant, Workshop on the Second Assessment of Research on Natural Hazards, Estes Park, CO, July, 1992.

Co-Organizer, 1992 Chemical Stockpile Disposal Program National Conference, Huntsville, AL June, 1992.

Participant, CSEPP Automation Conference, February, 1992.

Participant, CSEPP Public Affairs Conference, Denver, CO, December 1991.

Participant, Riskware 1992, Software Exposition sponsored by the Society for Risk Assessment, Baltimore, December, 1991.

Lecturer, Harvard University, School of Public Health, Seminar on Emergency Planning for Chemical Accidents, Boston, MA, July 8-12, 1991.

Invited Speaker, "Chemical Stockpile Emergency Preparedness Program," Oak Ridge Associated University, January, 1992.

Co-organizer, CSEPP Technical Planning Workshop, EMI, Emmittsburg, MD, September, 1991.

Organizer and Chair, Session on Evacuation Planning, EMEX 91, Las Vegas, NV, January, 1991.

Speaker, "Protective Action Modeling," Chemical Stockpile Emergency Preparedness Program National Meeting, Little Rock, AK, June 1991.

Co-Organizer. "1991 Chemical Stockpile Emergency Preparedness Program National Meeting, Little Rock, AK, June 1991.

Invited Speaker, "Recent Research on Human Response in Emergencies," Center for Technology, Environment and Development, Clark University, Worcester, MA, Sept. 1990.

Invited Speaker, "Protective Actions For Chemical Weapons Accidents, Harford County Local Emergency Planning Committee Meeting, Aberdeen, MD, September 1990.

Co-Organizer, 1990 Chemical Stockpile Disposal Program National Conference, Bend, OR,

May, 1990.

Panelist, "Electronic Emergency Planning," Chemical Stockpile Emergency Preparedness Program National Meeting, Bend, OR, May, 1990.

Discussant, Panel on Hazard Theory, Meetings of the Association of American Geographers, Toronto, April, 1990.

Invited Speaker, "Social Science Perspectives on Radiological Accidents," Southern California Edison, Orange County, CA, December, 1989.

Moderator, Panel on Emergency Planning for Extremely Hazardous Events, Hazards Workshop, Boulder, Colorado, July 1989.

Chair, Panel on Risk Communications, Natural Hazards Workshop, Boulder, Colorado, July, 1988.

Participant, National Research Council Workshop on Energy Emergencies, July 6-8, 1988, Washington, DC.

Lecturer, Harvard University, School of Public Health, Advanced Seminar on Emergency Planning for Nuclear Accidents, Boston, MA, July 14, 1988.

Participant, International Workshop on Risk Communication, Kernforschungsanlage, Julich, FRG, October 1987.

Participant, Workshop of the International Research Group on Risk Communication, Boston, MA, March 1987.

Discussant, Panel on Earthquake Hazard Mitigation, Association of American Geographers Annual Meeting, Portland, Oregon, April, 1987.

Participant, USGS Workshop on Communication of Hazard Warnings, 1987.

Participant, Workshop of the International Research Group on Risk Communication, Luxemburg, July, 1986.

Member, Technical Program Committee, American Nuclear Society, Topical Meeting on Radiological Accidents, 1986.

Chair, Panel on Spontaneous Evacuation, Natural Hazards Workshop, Boulder, Colorado, July 1985.

Organizer and Chair, Session on "Energy Research," Eighth Applied Geography Conference, November 1985.

Co-organizer and Chair. Session on "Energy Technology Transfer," Seventh Applied Geography Conference, Tallahassee, Florida, November 1984.

"Adjusting to Natural and Nuclear Hazards," Department of Physics, University of Colorado Fall Physics Colloquium, 1975.

Participant, Workshop on the Assessment of Research on Natural Hazards, Estes Park, CO, October, 1973.

PROFESSIONAL ACTIVITIES/AWARDS

Member, Advisory Committee, Rad Resilient City Preparedness, Center for Biosecurity, 2011.

2010 Communicator Film Award, Remediation From A Terrorist Attack Against a Major Airport.

Member, Committee on Mobile Alerts, National Research Council, 2010.

2008 Aurora Gold Film Award. Animals In Emergencies.

2008 Aurora Gold Film Award. Operations Level Training.

Member, Committee on Radiological Terrorism, National Research Council, Nuclear and Radiation Studies Board, 2005-2006.

On-line Communication Award, East TN Society for Technical Communication, for Residential Shelter-In-Place Training, 2004.

Member, Committee on Disaster Research in the Social Sciences, National Research Council, Division on Earth and Life Studies, 2004 -2005.

Theme Leader for Social and Behavioral Sciences, National Critical Infrastructure Protection R&D Plan, Office of Science and Technology, White House, 2004.

Member, Board of Trustees, Partnership for Public Warning, 2003 - 2005.

Member, Indian Point Independent Expert Task Force, 2003 – 2008.

Consultant, Maine Bio-terrorism Response Plan. 2002.

Proposal Review Panel, National Science Foundation, Infrastructure Management and Hazard Response (IMHR) program element in the Infrastructure and Information Systems (IIS) program, Engineering Directorate, Ongoing.

Certificate of Appreciation, Environmental Protection Agency, 2001.

Consultant, Indian Point Nuclear Power Station, 2001.

Member, Planning Committee for the Conference on Protecting the Public During Chemical Emergencies, National Institute for Chemical Studies, 1999.

Certificate of Appreciation, Presidents Commission on Critical Infrastructure Protection, July 23, 1997.

Reviewer, National Parks Service, "A Social Assessment of the Highwater 97A Incident, Yosemite National Park," August 1997.

Member, Emergency Management Technology Steering Group, Federal Emergency Management Agency, 1998.

Member, Advisory Committee for the National Transportation Emergency Management Network Study, DOE, 1996.

Reviewer, National Research Council, *Computing and Communications on a National Scale: Meeting the Need through Research*, 1995.

Subgroup Leader for Prediction, Forecast Warning and Emergency Planning, Second Assessment of Research on Natural Hazards, University of Colorado, Natural Hazards Research and Applications Center (Funded by NSF), 1994- 1997.

Advisory Committee for the Conference on Protective Actions During Chemical Emergencies, National Institute for Chemical Studies, 1995.

Member, Natural Disaster Subgroup, DOE Environmental Technology Inter-laboratory Committee, 1995.

Member, Advisory Committee, Natural Hazard Research and Applications Center, University of Colorado, 1993-Current.

Reviewer, National Research Council, *Scientific Plan for Mt. Ranier*, 1994.

Member, National Weather Service, Post Disaster Study Team, Tampa Bay Tornado, 1992.

Martin Marietta Special Achievement Award, 1992.

Member, Energy Division Advanced Computing Initiative Committee, 1992-93.

Laboratory Fellow, Hazard Assessment Laboratory, Colorado State University, 1987 - Current.

Member, Energy Division Computer Network Development Committee, 1992.

Member, Advisory Committee, International City Management Association, Emergency Management "Greenbook" Project, 1990-91.

Consultant, Three Mile Island Public Health Fund Emergency Planning Project, 1987-1988.

Member, Planning Subcommittee, Chemical Stockpile Emergency Preparedness Program, 1990-1994.

Member, National Research Council, Commission on Physical Sciences, Mathematics, and Resources, Earth Sciences Board, Subcommittee on Earthquake Research, 1988-91.

Member, International Research Group on Risk Communication. 1986-1990.

Member, Challenges in Science and Technology Program Committee, ORNL, 1988-92.

Consultant, Development of data for testimony on Seabrook Nuclear Power Plant, 1988.

Member, National Academy of Science, Post Disaster Study Team, Cheyenne, Wyoming Flood, 1985.

Reviewer, Report of the Committee On State and Federal Roles in Energy Emergency Preparedness, Energy Engineering Board, Commission on Engineering and Technical Systems, National Research Council, August, 1988.

Member, Atomic Industrial Forum, National Environmental Studies Project Task Force on Emergency Evacuation, 1987-1988.

Member, Long Range Planning Committee, Applied Geography Conference, 1985-1989.

Consultant and Expert Witness, Long Island Lighting Company. Shoreham Nuclear Power Plant Licensing Hearings on Emergency Planning Contentions, 1983-1984.

Consultant, Kansas Gas and Electric, Review of Wolf Creek Nuclear Power Station Emergency Plans, 1983.

Manuscript Reviews: *Annals of American Geographers*; *Environmental Management*; *The Professional Geographer*; *Natural Hazard Review*; *International Journal of Mass Emergencies and Disasters*, *The Environmental Professional*; *Risk Analysis*; *Nuclear Safety*; *Environment and Behavior*; *Journal of Hazardous Materials*; *Journal of Landscape Architecture*, Springer-Verlag Press, Duke University Press, State University of New York Press.

Proposal Reviews for Critical Engineering Systems, Earthquake Hazards Mitigation Program, National Science Foundation.

Proposal Reviews for Directorate for Engineering and Applied Sciences, National Science Foundation.

Proposal Reviews for Directorate for Social and Economic Sciences, National Science Foundation.

Corresponding Member, International Geographical Union, Working Group on Environmental Perception, 1978-82.

Member, Environmental Studies Advisory Committee, University of Hawaii, 1979-80.

Member, Hurricane Warning Advisory Group, National Weather Service, Honolulu, 1979-80.

Jonas Clark Scholarship, Clark University, Worcester MA, 1969-1973.