

CARLA PRATER

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EDUCATION

Ph.D. Department of Political Science, Texas A&M University, 1999

M.S. in Urban and Regional Planning, Texas A&M University, 1993

B.A. Magna Cum Laude, Pepperdine University, 1975

Associação Escola Graduada de São Paulo, São Paulo, SP, Brazil, 1972

PROFESSIONAL POSITIONS

2005-present

Associate Director, Hazard Reduction & Recovery Center, Texas A&M University

2001-present

Lecturer, Department of Landscape Architecture and Urban Planning, Texas A&M University

1999-2005

Research Scientist, Hazard Reduction and Recovery Center, Texas A&M University.

1998-1999

Lecturer, Department of Political Science, Texas A&M University

1996-1998

Graduate Research Assistant, Hazard Reduction and Recovery Center; Texas A&M University

1993-1995

Graduate Research Assistant and Editorial Intern at The Journal of Politics, Political Science Department; Texas A&M University,

1991-1993

Graduate Research Assistant, Hazard Reduction and Recovery Center; Texas A&M University

1990

Graduate Research Assistant, College of Architecture, Texas A&M University

1975-1990

Church of Christ Missionary, São Paulo and Brasília, Brazil

PRINCIPAL INVESTIGATOR AND CO-PRINCIPAL INVESTIGATOR

National Science Foundation. Analysis of Institutional Response to the Taiwan 9/21 Earthquake, 9/00-8/01. \$74,999.

Texas Division of Emergency Management. Hurricane Bret Post-Storm Assessment and Analysis, 4/00-9/00. \$30,000.

National Science Foundation. Organization-Based Post Disaster Sheltering and Housing of Low Income and Minority Groups. 5/97-4/02. \$300,610.

Texas Division of Emergency Management. Hurricane Evacuation Study Materials, 12/01-06/02. \$121,932.

National Science Foundation. Develop an Evacuation Management Decision Support System, 9/02-8/05, \$409,210.

Mid-America Earthquake Center. DS-8: Socioeconomic Impacts. 5/03-10/04. \$80,000 (with match, \$160,000).

National Science Foundation. Social Vulnerability Mapping and GIS in Tsunami Impact Analysis, 3/05-9/05, \$94,312.

Texas Department of Transportation. Hurricane Rita Behavioral Survey, 03/-6-01/07. \$67,000.

Texas General Land Office, Status and Trends of Coastal Vulnerability, 08/06-07-11, \$750,000.

PUBLICATIONS

1992

Carla Prater. *Coastal Zone Management in Texas*. Environmental and Urban Issues. FAU/FIU Joint Center for Environmental and Urban Problems. Ft. Lauderdale, Florida. 20, 1: 23-31.

2000

Carla S. Prater and Michael K. Lindell. *The Politics of Hazard Mitigation*. Natural Hazards Review 1, 2:73-82.

Michael K. Lindell and Carla S. Prater. *Household Adoption of Seismic Hazard Adjustments: A Comparison of Residents in Two States*. International Journal of Mass Emergencies and Disasters 18, 2:317-338.

2002

Carla S. Prater and Jie-Ying Wu. *The Politics of Emergency Response and Recovery: Preliminary Observations on Taiwan's 921 Earthquake*. Australian Journal of Emergency Management Vol 17:48-59.

Michael K. Lindell and Carla S. Prater. *Risk Area Residents' Perceptions and Adoption of Seismic Hazard Adjustments*. Journal of Applied Social Psychology 32:1-17.

2003

Michael K. Lindell and Carla S. Prater. *Assessing Community Impacts of Natural Disasters*. Natural Hazards Review 4., 4: 176-186.

2004

Zhang, Y., Prater, C.S., & Lindell, M.K. *Risk Area Accuracy and Evacuation from Hurricane Bret*. Natural Hazards Review 5:115-120.

Lopes da Silva Valencio, Norma F., Marcelo Coutinho Vargas, Eduardo Mário Mendiando, Rodrigo Constante Martins, Pedro Fernando Caballero Campos, Carla S. Prater. *Caracterização da vulnerabilidade dos assentamentos humanos perante os perigos hidrometeorológicos: um estudo de caso no município de São Carlos*. Teoria e Pesquisa, 42, 107-139.

Lopes da Silva Valencio, Norma F., Carla S. Prater, Pedro Fernando Caballero Campos, Lilian Mattos Trivelin, Mariana Siena, Joéverson Domingues Evangelista, Victor Marchezini, Cíntia de Cássia Catóia, Guilherme Cristofani, Mariane Tagliaferro, Aline Ramos Barbosa, Beatriz Pavan, Julana Paganelli. (2004). *A produção social do desastre; Dimensões territoriais e político-institucionais da vulnerabilidade das cidades brasileiras frente às chuvas*. Teoria e Pesquisa 44, 67-115.

Zhang, Y., Prater, C.S., & Lindell, M.K. Risk area accuracy and evacuation from Hurricane Bret. Natural Hazards Review, 5, 115-120.

2005

Arlkatti, S., Lindell, M.K., Prater, C.S. & Zhang, Y. (in press). Risk area accuracy and hurricane evacuation expectations of coastal residents. Environment & Behavior.

Lindell, M.K., Lu, J.C., & Prater, C.S. (in press). Household evacuation decision making in response to Hurricane Lili. *Natural Hazards Review*.

2006

Arlikatti, S., Lindell, M.K., Prater, C.S. & Zhang, Y. (2006). Risk area accuracy and hurricane evacuation expectations of coastal residents. *Environment & Behavior*, 38, 226-247.

Lindell, M.K., Prater, C.S. & Perry, R.W. (2006). *Fundamentals of Emergency Management*. Emmitsburg MD: Federal Emergency Management Agency Emergency Management Institute. Available at <http://training.fema.gov/EMIWeb/edu/introtoEM.asp>.

Lindell, M.K., Prater, C.S. & Perry, R.W. (2007). *Introduction to Emergency Management*. Hoboken NJ: Wiley (actually published in 2006 even though the copyright date is 2007).

2007

Grover, H., C.S. Prater, W.G. Peacock & S. Arlikatti (submitted for review) From an Altruistic Society to an Acrimonious Society: Social Impacts of the December 2004 Tsunami on Coastal Communities in Nagapattinam District, Tamil Nadu India. *Disasters*.

Kang, J.E., Lindell, M.K. & Prater, C.S. (in press). Hurricane evacuation expectations and actual behavior in Hurricane Lili. *Journal of Applied Social Psychology*.

Lindell, M.K. & Prater, C.S. (in press). A hurricane evacuation management decision support system (EMDSS). *Natural Hazards*.

Lindell, M.K. & Prater, C.S. (in press). Critical behavioral assumptions in evacuation analysis for private vehicles: Examples from hurricane research and planning. *Journal of Urban Planning and Development*.

Lindell, M.K., Prater, C.S. & Peacock, W.G. (in press). Organizational communication and decision making in hurricane emergencies. *Natural Hazards Review*.

Prater, C.S., W.G. Peacock, S. Arlikatti & H. Grover (2007) Social Capacity in Nagapattinam, Tamil Nadu after the December 2004 Great Sumatra Earthquake and Tsunami, *Earthquake Spectra*.

Zhang, Y., Lindell, M.K. & Prater, C.S. (in press). Modeling and managing the vulnerability of community businesses to environmental disasters. *Disasters*.

PRESENTATIONS

1991

Carla S. Prater. *The Use of Land-Use Planning and State Planning Mandates in Natural Hazard Mitigation: A Comparative Evaluation of State and Local Experience*. Presented at the 16th Annual Hazards Research and Applications Workshop, Boulder Colorado, July 14-17.

1993

Carla S. Prater, Gabriela Vigo and Benigno Aguirre. *Preliminary Observations: Occupant Behavior During Hurricane Andrew*. Presented at the National Research Conference on Natural Hazard Mitigation, Miami, Florida, August 2-4.

1994

Carla S. Prater. *Military Prerogatives and Democratic Consolidation*. Presented at the Southern Political Science Association Conference in Atlanta Georgia, November 3-5.

1996

Carla S. Prater. *The Political Factor in Relation to Disasters Within the Development Agenda*. Presented at the Workshop on Hurricane César: Lessons and Options for Land-Use Planning and Sustainable Development. San José, Costa Rica, December 3-5.

1997

Carla S. Prater. *Green Parties in New Democracies*. Presented at Workshop on Parties and Democracy, Texas A&M University, College Station Texas, April 4-6.

1998

Carla S. Prater. *Comparing Latin American Greens to Western European Greens*. Presented at Southwest Political Science Association Annual Meeting March 25-28.

1999

Carla S. Prater. *Political Strategies, Sustainable Development and Hazard Agendas*. Presented at the Multisectoral Workshop on Disaster Prevention, Santo Domingo, Dominican Republic, October 11-16.

Michael K. Lindell and Carla S. Prater. *Hazard Reduction and Recovery: Foundation for Reconstruction*. Presented at the Workshop on Reconstruction and Transformation of Central America, Texas A&M University, April 14-15.

Michael K. Lindell and Carla S. Prater. *Household Adoption of Seismic Hazard Adjustments: A comparison of Residents in Two States*. Presented at 24th Annual Hazards Research and Applications Workshop, Boulder, Colorado July 11-14.

Carla S. Prater. *Hazards Mitigation in a Federalist System..* Presented at the Community Hazards Awareness and Hazards Mitigation Learning Workshop, Taipei, Taiwan July 26-28.

2000

Lindell, Michael K. and Carla S. Prater. *Community management of environmental hazards: Household response to earthquakes*. Association of Collegiate Schools of Planning, Atlanta GA, November 3-5.

Lindell, Michael K. and Carla S. Prater. *Risk area residents' perceptions of seismic hazard adjustments*. Hazards Research and Applications Workshop, Boulder CO, July 9-12.

Carla S. Prater. *Dissemination of Disaster Mitigation: Experiences from the U.S.* Presented at the Preliminary Meeting on Dissemination of Disaster Mitigation Technologies for Humanistic Concerns, Taipei, Taiwan September 15-16.

2001

Carla S. Prater. *The Short History of Project Impact: A Preliminary Evaluation*. Presented at the APEC Workshop on Dissemination of Disaster Mitigation Technologies, Taipei, Taiwan June 18-21, 2001.

2002

Carla S. Prater and Jie Ying Wu. *Analysis of Institutional Response to the Taiwan 921 Earthquake*. Presented at the NSF-TUBITAK Turkey-Taiwan Grantee Workshop. 24-26 March, Antalya, Turkey.

Carla S. Prater *Multicultural and Multilingual Aspects of Natural Disaster Response*. Presented at the Warning Coordination Meteorologist Initiatives Team Meeting, National Weather Service Training Center, Kansas City, Missouri, June 4-6.

Lindell, Michael K., Carla S. Prater, Ronald W. Perry and Jie Ying Wu. *EMBLEM: An empirically based large-scale evacuation time estimate model*. Hazards Research and Applications Workshop. Boulder CO, July 14-17.

Carla S. Prater and Michael K. Lindell. *Emergency Management Studies in the United States*. Presented at the 12th Course in Emergency Management for Municipalities, Rio Claro, □São Paulo, Brazil, August 14-15.

2003

Carla S. Prater. *Hazard Mitigation and Disaster Recovery*. Two week short course at Istanbul Technical University, Istanbul, Turkey. March 17-28.

Carla S. Prater, Michael K. Lindell and Walter G. Peacock. *Estimating Potential Socioeconomic Impacts Of Environmental Disasters*. GNDT-MAE-SAFERR (GMS) Conference, Erice, Sicily. May 26-28.

Peacock, Walter Gillis, Michael K. Lindell and Carla S. Prater. *Effects of Uncertainty on Evacuation Decisions by Households and Local Officials*. Hazards Research and Applications Workshop, Boulder CO, July 14-16.

Carla S. Prater. *Hazard Mitigation and Sustainable Development*. Presented at the 1st International Symposium on Catastrophes, □São Carlos, □SP Brazil, August 13th.

2004

Lindell, M.K., Prater, C.S. & Lu, J.C. *Household evacuation decision making in Hurricane Lili*. Hazards Research and Applications Workshop.

Prater, C.S., Peacock, W.G., Lindell, M.K., Lu, J.C. & Zhang, Y. *GIS based analysis of socioeconomic vulnerability to disasters*. Hazards Research and Applications Workshop.

Zhang, Y., Lindell, M.K. & Prater, C.S. *Modeling and managing the vulnerability of community businesses to environmental disasters*. Association of Collegiate Schools of Planning.

Lindell, M.K., Prater, C.S., & Peacock, W.G. *Models and methods of disaster impact assessment*. Mid-America Earthquake Center Annual Meeting.

Lindell, M.K. *Risk perception/communication about high level radioactive waste transportation*. National Academy of Sciences Board on Radioactive Waster Management, Committee on Transportation of Radioactive Wastes.

Lindell, M.K. *The Protective Action Decision Model: Theoretical foundations, empirical support, and practical applications*. University of Texas at San Antonio Department of Psychology.

Lindell, M.K. & Prater, C.S. *Development of a hurricane evacuation management decision support system (EMDSS)*. Virginia Commonwealth University School of Government and Public Administration.

Lindell, M.K. & Prater, C.S. *Evacuation behavior in Hurricane Lili*. National Weather Service Lake Charles Regional Hurricane Conference.

Lindell, M.K. & Prater, C.S. *Estimating evacuation time components: Lessons from nuclear power plants, hurricanes, and the first World Trade Center bombing*. National Institute for Standards and Technology Workshop on Building Occupant Movement During Fire Emergencies.

Lindell, M.K. & Prater, C.S. *Organizational decision making and household response to tsunami evacuation warnings*. Tsunami Scenario Simulation Workshop.

2005

Lindell, M.K. & Prater, C.S. *EMDSS: An Evacuation Management Decision Support System*. Hazards and Disasters Researchers Meeting, Boulder Colorado.

Carla Prater, Walter Gillis Peacock, Himanshu Grover & Sudha Arlikatti. *Social Capacity in Nagapattinam, Tamil Nadu*. Natural Hazards Research and Applications Workshop, Boulder Colorado.

Carla S. Prater, Walter Gillis Peacock, Michael K. Lindell, Jing Chein Lu and Yang Zhang. *A Social Vulnerability Approach to Estimating Potential Socioeconomic Impacts of Earthquakes*. Vulnerability Assessment Techniques Workshop IV, New Orleans, Louisiana.

2006

Arlikatti, S., Lindell, M., and Prater, S. *Building Trust Among Community Stakeholders*. Paper submitted to NATO Security through Science Series. Proceedings of the NATO and TIPS Advanced Research Workshop on Understanding and Responding to Terrorism: A Multidimensional Approach, Washington, D.C., September 8-9.

Lindell, M.K., Prater, C.S. & Peacock, W.G. (2006). Organizational communication and decision making in hurricane emergencies. American Meteorological Society.

Lindell, M.K., & Prater, C.S. (2006). Evacuation from Hurricane Katrina: Jefferson and St. Charles parishes. National Hurricane Conference.

Lindell, M.K., & Prater, C.S. (2006). Understanding evacuation demand. Intelligent Transportation Systems America.

Lindell, M.K. & Prater, C.S. (2006). Hurricane evacuation after Katrina/Rita: How much worse could it be? American Meteorological Society 2nd Annual Community Meeting.

Arlikatti, S., Lindell, M. & Prater, S. (2006). Building trust among community stakeholders. NATO and TIPS Advanced Research Workshop on Understanding and Responding to Terrorism: A Multidimensional Approach.

Prater, Carla S. and Jing-Chein Lu. (2006) Social vulnerability mapping for natural hazards management. Central American Aggies Summit, El Salvador, February 16-19.

OTHER ARTICLES AND TECHNICAL REPORTS

1991

Carla S. Prater, Gabriela Vigo, Margaret Hall and John Edmiston. *Search and Rescue: A Multidisciplinary Annotated Bibliography*. College Station, Texas: Hazard Reduction and Recovery Center.

1992

Carla S. Prater. *Coastal Zone Management in Texas*. Environmental and Urban Issues. FAU/FIU Joint Center for Environmental and Urban Problems. Ft. Lauderdale, Florida. 20, 1: 23-31.

1996

Carla S. Prater and Dennis Wenger. *Observations on Occupant Behavior During the Evacuation of the World Trade Center*. Working paper, Hazard Reduction and Recovery Center.

1997

Prater, Carla S., Dennis E. Wenger and Michael K. Lindell. *The WTC Evacuation: A Behavioral Study*. Hazard Reduction & Recovery Center Working paper.

2000

Carla S. Prater, Dennis Wenger and Kevin Grady. *Hurricane Bret Post-Storm Assessment: A Review of the Utilization of Hurricane Evacuation Studies and Information Dissemination*. Report prepared for the Texas Division of Emergency Management and the Federal Emergency Management Agency Region VI. Hazard Reduction and Recovery Center, Texas A&M University, College Station, TX.

2001

Michael K. Lindell, Carla S. Prater, William G. Sanderson, Jr., Hee Min Lee, Zhang Yang, Amar Mohite, and Seong Nam Hwang. *Texas Gulf Coast Residents' Expectations and Intentions Regarding Hurricane Evacuation*. Report prepared for the Texas Division of Emergency Management and the Federal Emergency Management Agency Region VI. Hazard Reduction and Recovery Center, Texas A&M University, College Station, TX.

2002

Michael K. Lindell, Carla S. Prater and Jie Ying Wu. *Hurricane Evacuation Time Estimates for the Texas Gulf Coast*. Report prepared for the Texas Division of Emergency Management and the Federal Emergency Management Agency Region VI. Hazard Reduction and Recovery Center, Texas A&M University, College Station, TX.

Carla S. Prater and Michael K. Lindell. *Local Jurisdictions' Evacuation Guidance and Transportation Support for Hurricane Evacuees*. Report prepared for the Texas Division of Emergency Management and the Federal Emergency Management Agency Region VI. Hazard Reduction and Recovery Center, Texas A&M University, College Station, TX.

Lindell, Michael K., Carla S. Prater, Perry R.W. and Jie Ying Wu. *Recent developments in hurricane evacuation time estimation. Proceedings of the 2002 US/Taiwan Workshop on Hazard Mitigation*, pp. 12-1—12-8.

Lindell, Michael K. and Carla S. Prater. Development of a decision support system for hurricane evacuation management. *Proceedings of the 2002 US/Japan Workshop on Wind Engineering*.

Lindell, Michael K. and Carla S. Prater. Development of a decision support system for evacuation management. *Proceedings of the First International Conference on Debris-Flow Disaster Mitigation Strategy*, pp. 47-71.

2003

Carla S. Prater, Michael K. Lindell, Walter G. Peacock, Jing-Chein Lu and Yang Zhang. DS-8: A Social Vulnerability Approach to Estimating Potential Socioeconomic Impacts of Earthquakes

2004

Arlikatti, S., Lindell, M.K., Prater, C.S. & Zhang, Y. (2004). *Risk Area Accuracy and Hurricane Evacuation Expectations of Coastal Residents*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Lindell, M.K., Prater, C.S., Lu, J.C., Arlikatti, S. Zhang, Y. & Kang, J.E. (2004). *Hurricane Lili Evacuation*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Kang, J.E., Lindell, M.K. & Prater, C.S. (2004). *Hurricane Evacuation Expectations and Actual Behavior in Hurricane Lili*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Lu, J.C., Lindell, M.K. & Prater, C.S. (2004). *Household Evacuation Decision Making in Response to Hurricane Lili*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Zhang, Y., Lindell, M.K. & Prater, C.S. (2004). *Modeling and Managing the Vulnerability of Community Businesses to Environmental Disasters*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Arlikatti, S., Lindell, M.K., & Prater, C.S. (2004). *Perceived Stakeholder Role Relationships and Adoption Of Seismic Hazard Adjustments*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Lopes da Silva Valencio, Norma F., Marcelo Coutinho Vargas, Eduardo Mário Mendiondo, Rodrigo Constante Martins, Pedro Fernando Caballero Campos, Carla S. Prater. Subsídios à gestão de desastres: percepção social dos fatores de risco e das políticas de emergência relacionados aos perigos hidrometeorológicos (o caso do município de São Carlos/SP). Universidade Federal de São Carlos – UFSCar, Centro de Ciências Humanas e Educação

2006

Arlikatti, S., Lindell, M.K., & Prater, C.S. (2006). *Perceived Stakeholder Role Relationships and Adoption Of Seismic Hazard Adjustments*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Zhenghong Tang, Z., Lindell, M.K., Prater, C.S. & Brody, S.D. (2006). *Measuring Tsunami Planning Capacity on the U.S. Pacific Coast*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

Lindell, M.K. & Prater, C.S. (2006). *Tsunami Hazard Management on the Oregon and Washington Coast: Recommendations for Research and Policy*. College Station TX: Texas A&M University Hazard Reduction & Recovery Center.

TEACHING EXPERIENCE

Undergraduate

Introduction to Comparative Politics

Graduate

Organizational and Community Response to Crises and Disasters

Analyzing Risk and Hazard Policy

Hazard Mitigation and Disaster Recovery

Applied Planning

Workshops and Short Courses

Hazard Mitigation and Disaster Recovery

Social Science Research in Disasters

SCIENTIFIC JOURNAL AND PROPOSAL PEER REVIEWS

American Society of Civil Engineers *Natural Hazards Review*

National Science Foundation, Infrastructure Systems and Hazards Mitigation Program

Australian Journal of Emergency Management

Journal of Homeland Security and Emergency Management

Disasters

John Wiley and Sons

ProVention Consortium Disaster Research Program

INVITED PARTICIPATION

Office of Foreign Disaster Assistance, Taller Internacional sobre Gestion del Riesgo a Nivel Local in Manizales Colombia, Septembe 27-30 2006.