

CURRICULUM VITAE
LOUISE K. COMFORT

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EDUCATION

Ph.D., Yale University, Political Science, 1975
University of Hamburg, Germany, Studies in Political Sociology and German Language, 1960-61
M.A., Political Science, University of California, Berkeley, 1960
B.A., Political Science and Philosophy, with honors, Macalester College, St. Paul, MN, 1956

APPOINTMENTS:

Professor Emerita, Graduate School of Public and International Affairs, University of Pittsburgh, 2022 - present
Professor, Graduate School of Public and International Affairs, University of Pittsburgh, 1999 -2021
Director, Center for Disaster Management, Graduate School of Public & International Affairs 2009-2017
Associate Professor, University of Pittsburgh, 1984, tenured, 1986 -1998

TEACHING AREAS

Organizational Theory and Design; Organizational Analysis, Organizational Dynamics and Change Processes; Policy Design and Implementation; Public Policy Analysis; Public Management; Information Technology, Systems Theory, Systems Thinking and Public Policy; Quantitative Methods II.

ACADEMIC EXPERIENCE

University of California, Berkeley, Visiting Researcher, CITRIS, 06/16/2022 to present.
Nanjing University, Nanjing, China. Concurrent Professor, School of Government, 2019.
University of California, Berkeley. Affiliated Scholar, Policy Lab, Center for Information Technology Research in the Interest of Society, (CITRIS) 2018 - June 2022.
Visiting Lecturer, Department of Political Science, Fall Term, August 15 – December 15, 2018.
Middle East Technical University, Ankara, Turkey. Visiting Scholar, Disaster Management Implementation and Research Center, May 12 – June 13, 2014.
Inner Mongolia University, Huhhot, China. Visiting Scholar, School of Public Management, 2010.
National ChengChi University, Taipei, Taiwan. Visiting Professor, Department of Public Administration. Lectures on Disaster Management and Research Methods. Dec. 8 – 22, 2006.
Universidad Nacional de Córdoba, Córdoba, Argentina. Fulbright Senior Scholar, Instituto de Investigación y Formación en Administración Pública. Lectures and professional design of curricular specialization in disaster management, August 11-26, 2006.
Ritsumeikan University, Kyoto, Japan. Visiting Professor, Department of Geography. Intensive course on GIS and Disaster Management. May 30-June 6, 2004.

Kobe University, Kobe, Japan. Visiting Professor, Research Center for Urban Safety and Security, School of Engineering, July 17, 1999 – March 31, 2000.

University of Pittsburgh. Graduate School of Public and International Affairs, Associate Professor, 1984 – 1999, tenured in 1986.

Leiden University, Netherlands. Visiting Professor, Department of Public Administration, September 7-October 1, 1993.

University of California, Berkeley. Research Associate and Visiting Scholar, Institute of Governmental Studies, May 1, 1988-April 30, 1989; June-August 1990; June-August 1991; February-August 1994; Summers, 1995-1998; 2000-2012; 2013; 2015-2016.

University of California, Berkeley. Visiting Lecturer (Associate Professor rank), School of Business Administration, Spring Semester 1984.

California State University, Hayward. Lecturer and Research Associate (Associate Professor rank), Department of Public Administration and Department of Management Sciences, 1983-84.

Golden Gate University, San Francisco. Professional Lecturer (Associate Professor rank), Doctoral Program in Public Administration, 1982-1984.

San Jose State University. Associate Professor, Master's Program in Public Administration and Department of Political Science, 1980-1982.

San Jose State University. Assistant Professor, Master's Program in Public Administration and Department of Political Science, 1976-1980.

San Jose State University. Visiting Lecturer, Master's Program in Public Administration and Department of Political Science, 1975-1976.

Holy Names College, Oakland, CA. Assistant Professor of Political Science, 1966-1971

Center for Advanced Study in the Behavioral Sciences, Stanford, CA. Research Assistant to Yehezkel Dror, 1962-63

Princeton University, Center for International Studies. Research Associate, *Civic Culture* Project. Gabriel Almond, Principal Investigator, 1959-1960

WORK IN PROGRESS

My present research focuses on the problem of linking information technology to organizational learning and performance in organizations that function in complex, dynamic environments. I am working in two areas: decision-making processes under uncertainty and organizational design to improve performance in complex systems. Two works in progress, one, initiated at the Center for Disaster Management (CDM), University of Pittsburgh, and one, initiated at CITRIS, University of California, Berkeley, illustrate how these processes interact. These works are:

A Sustainable Sociotechnical Approach for Detecting, Mitigating, and Building Resilience to Hazards. This research is an international, interdisciplinary project to implement an early tsunami detection system in the coastal waters of Padang, Sumatra, Indonesia. The research builds on earlier work in Indonesia that supported the design and development of a computational model for an undersea sensor network that links to a land-based communications network for detection and mitigation of near-field tsunami risk. The research was supported by a National Science Foundation grant #OCE 1331463, Hazards SEES Type 2: From Sensors to Tweeters: A Sustainable Sociotechnical Approach for Detecting, Mitigating, and Building Resilience to Hazards, September 1, 2013 – August 31, 2019, \$3,000,000 and three complementary grants from the Swiss Re Foundation, Project IDs #6258, #6394, and #6432, 2018-2021, totaling \$483,239. The project completed its final phase in April 2022; research findings are now integrated into a final manuscript that is in production to be published as an edited book, *Hazardous Seas: A Sociotechnical Approach to Early Tsunami Detection and Warning* by Island Press, Washington, DC, in July 2023.

Global Researchers' Coordination Network. This research was initiated on March 23, 2020, as an effort to study the comparative policy response of 10 nations to COVID-19. The research was supported by an initial small grant of \$1000 from the Natural Hazards Center, University of Colorado in conjunction with the National Science Foundation. Twenty researchers from ten nations actively participated in this research, and we have produced a book manuscript of comparative case analyses that focuses specifically on uses of information and communications technologies by different nations as they coped with the global crisis of COVID-19 during the first six months of 2020. The research network produced an integrated publication, listed below and continues to examine the lingering pandemic since July 1, 2020.

PUBLICATIONS

Books:

Global Risk Management: The Role of Collective Cognition in Response to COVID-19. Lead editor with M.L. Rhodes. 2022. Routledge Publications, September.

The Dynamics of Risk: Changing Technologies and Collective Action in Seismic Events. Princeton: Princeton University Press, Studies in Complexity. 2019. The book received the 2020 Don K. Price Best Book Award, Section on Science, Technology and Environmental Policy, *American Political Science Association*, August. 2020.

Mega-Crises: Understanding the Prospects, Nature, Characteristics and Effects of Cataclysmic Events. Co-editor with Ira Helsloot, Arjen Boin, and Brian Jacobs. Springfield, IL: Charles C. Thomas, Publisher, 2012.

Designing Resilience: Preparing for Extreme Events. Lead editor with Arjen Boin and Chris C. Demchak. Pittsburgh: University of Pittsburgh Press. 2010.

Managing Crises: Threats, Dilemmas and Opportunities. Co-editor with U. Rosenthal and A. Boin, and author. Springfield, IL: Charles C. Thomas, Publisher. 2001.

Shared Risk: Complex Systems in Seismic Response. Oxford and New York: Pergamon Press, 1999.

Managing Disaster: Strategies and Policy Perspectives, editor, and co-author, see chapters cited below. Durham, NC: Duke University Press, 1988.

Education Policy and Evaluation: A Context for Change, Elmsford, NY: Pergamon Press, Inc., 1982.

Refereed Articles and Special Issues:

Comfort, L.K. 2022. Cognition, Collective Action, and COVID-19: Managing Crises in Real Time, *Public Performance & Management Review*, Vol. 45, Iss. 4: 894-915.

Ansell, C., L.K. Comfort, A. Keller, T. LaPorte, and P. Schulman. 2021. The Loss of Capacity in Public Organizations: A Public Administration Challenge. *Perspectives on Public Management and Governance*. Vol. 4, Iss. 1:24-29.

Comfort, L.K., K. Soga, M. McElwee, C. Ecosse, B. Zhao. 2021. Collective Action in Communities Exposed to Recurring Hazards: The Camp Fire, Butte County, California, November 8, 2018. *International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)*.

Manuscript received 15 Oct. 2020; revised 29 Jan. 2021; accepted 2 Feb. 2021. Date of publication 17 Feb. 2021.

- Comfort, L.K. and H. Zhang. 2020. Operational Networks: Adaptation to Extreme Events in China. *Risk Analysis*. Vol. 40, Iss. 5, pp: 981-1000. <https://doi.org/10.1111/risa.13442>
- Comfort, L.K. 2020. Collective Cognition, Action, and Complex Time: Managing Response to COVID-19 on a Global Scale. *International Journal of Policy Studies* 11(2), 2020, 123-147.
- Comfort, L.K., N. Kapucu, K. Ko, S. Menoni, and M. Siciliano. 2020. Crisis Decision-Making on a Global Scale: Transition from Cognition to Collective Action under Threat of COVID-19. *Public Administration Review*, Vol. 80, Iss. 4, pp. 616–622.
- Comfort, L.K., K. Soga, M. Stacey, M. McElwee, C. Ecosse, J. Dressler, and B. Zhao. 2019. *Collective Action in Communities Exposed to Recurring Hazards: The Camp Fire, Butte County, California, November 8, 2018*. Natural Hazards Center, University of Colorado, Boulder, QR 300.
- Comfort, L.K., T.W. Haase, G. Ertan, and S.R. Scheinert. 2019. The Dynamics of Change Following Extreme Events: Transition, Scale, and Adaptation in Systems Under Stress. *Administration & Society*. <https://doi.org/10.1177/0095399719869991>
- Comfort, L.K., J. Yeo, and S.R. Scheinert. 2019. Organizational Adaptation under Stress: Tracing Communication Processes in Four California County Health Departments during the H1N1 Threat, April 28, 2009 – March 11, 2011. *American Review of Public Administration*. Vol. 49, 2: 159-173. First published online, July 6, 2018.
- Comfort, L.K. and J. Joshi. 2017. Scalability and Sustainability in Uncertain Environments: Transition to Recovery from the 2015 Gorkha, Nepal, Earthquakes. *Earthquake Spectra*: December 2017, Vol. 33, No. S1, pp. S385-S401.
- Yeo, J., & Comfort, L.K. 2017. An Expected Event, but Unprecedented Damage: Structure and Gaps of Large-Scale Response Coordination of The 2011 Thailand Floods. *Disaster Prevention and Management: An International Journal*, 26(4), 458-470.
- Comfort, Louise K., Bert, Jennifer, and Song, Jee Eun. 2016. ‘Wicked Problems in Real Time: Uncertainty, Information, and the Escalation of Ebola.’ *Information Polity*. Vol. 27, No. 3: 273 – 289.
- Comfort, L.K. 2016. Editor and Co-Author. Building Community Resilience to Global Hazards: A Sociotechnical Approach. *Safety Science*, Special Issue. Volume 90, Pp. 1-106 (December).
- Erkan, B., G. Ertan, J. Yeo, and L.K. Comfort. 2016. Risk, Profit, or Safety: Sociotechnical Systems under Stress. *Safety Science*. Vol.88 (October): Pp. 199–210.
- Chalfant, Brian and Louise K. Comfort. 2015. Dynamic Decision Support for Managing Risk: Mapping Regional Resources in Allegheny County, Pennsylvania. *Safety Sci.*, <http://dx.doi.org/10.1016/j.ssci.2015.09.013>

- Zhang, Haibo, Xiazu Zhang, *Louise Comfort*, and Mengyao Chen. 2015. The Emergence of an Adaptive Response Network: The April 20, 2013 Lushan, China Earthquake. *Safety Sci.*, <http://dx.doi.org/10.1016/j.ssci.2015.11.012>
- Santos, Rodrigo, Daniel Mosse, Taieb Znati, and *Louise K. Comfort*. 2015. Design and Implementation of a Witness Unit for Opportunistic Routing in Tsunami Alert Scenarios. *Safety Sci.* <http://dx.doi.org/10.1016/j.ssci.2015.09.014>
- Ai, F., *L. K. Comfort*, Y. Dong, and T. Znati. 2015. A Dynamic Decision Support System based on Geographical Information and Mobile Social Networks: A model for tsunami risk mitigation in Padang, Indonesia. *Safety Sci.*, <http://dx.doi.org/10.1016/j.ssci.2015.09.022>
- Hardy, Karim and *Louise K. Comfort*. 2015. Dynamic decision processes in complex, high-risk operations: The Yarnell Hill Fire, June 30, 2013. *Safety Science.*, Vol. 71, pp. 39-47.
- Oh, Namkyung Aya Okada, and *Louise K. Comfort*. 2014. Building Collaborative Emergency Management Systems in Northeast Asia: A Comparative Analysis of the Roles of International Agencies. *Journal of Comparative Policy Analysis: Research and Practice*. Vol, 16:1,pp. 94-111.
- Kees Boersma, *Louise Comfort*, Jelle Groenendaal & Jeroen Wolbers. 2014. Editorial: =Incident Command Systems: A dynamic tension among goals, rules, and practice. *Journal of Contingencies and Crisis Management*. Vol. 22, Iss. 1, pp. 1-4. This editorial serves as the introduction to a special issue on Incident Command Systems edited by the four authors. The entire issue includes pp. 1-67.
- Comfort, Louise K. & Sandra L. Resodihardjo. 2013. Leadership in Complex Adaptive Systems. *International Review of Public Administration*. Vol. 18, No. 1, pp. 1-4. This article served as the Introduction to a special Symposium on Leadership in Complex Adaptive Systems edited by Louise K. Comfort and Sandra L. Resodihardjo, published in *IRPA*, Vol. 18, No. 1.
- Comfort, Louise K. and Aya Okada. 2013. Emergent Leadership In Extreme Events: A Knowledge Commons For Sustainable Communities. *International Review of Public Administration*. Vol. 18, No. 1, pp. 61-77. This article is included in a special Symposium on Leadership in Complex Adaptive Systems edited by Louise K. Comfort and Sandra L. Resodihardjo, published in *IRPA*, Vol. 18, No. 1.
- Comfort, L.K., A. Okada, and G. Ertan. 2013. Networks of Action in Catastrophic Events: The March 11, 2011 Tohoku Disasters. Special Issue, *Earthquake Spectra*, **29 (S1)**, S387–S402.
- Comfort, LK, S. Scheinert, J. Yeo, S. Stebbins, R. Schuh, L. Duran, and M. Potter. 2013. Using Bayesian Influence Diagrams to Assess Organizational Performance in 4 California County Health Departments, April-July 2009. Research Brief Report. *Journal of Public Health Management and Practice*. 19 March 2013: 1-3. doi: 10.1097/PHH.0b013e31828bf6f6
- Skertich, Robert L., David E.A. Johnson and Louise K. Comfort. 2013. A Bad Time for Disaster: Economic Stress and Disaster Resilience. *Administration & Society*. Vol.45, Iss. 2:145-166.
- Comfort, Louise K. and Clayton Wukich. 2013. Developing Decision-Making Skills for Uncertain Conditions: The Challenge of Educating Effective Emergency Managers. *Journal of Public Affairs Education*. Vol. 19, No. 1 (FEMA Symposium): 58-72.

- Comfort, L. K., T. Znati, M. Voortman, Xerandy, and L. E. Freitag. 2012. Early Detection of Near-Field Tsunamis Using Underwater Sensor Networks. *Science of Tsunami Hazards*, vol. 31, Iss. 4: 231-243.
- Comfort, L.K., Guest Editor. 2012. Designing Disaster Resilience and Public Policy. *Journal of Comparative Policy Analysis*. Special Issues, Vol. 14, Iss. 2 and Iss. 3.
- Boulos, G., L.J. Huggins, M.D. Siciliano, H. Ling, J. Yackovich, Jr., D. Mossé, L.K. Comfort. 2012. Designing Resilience for Communities at Risk: Sociotechnical Decision Support for Near-field Tsunamis. *Journal of Comparative Policy Analysis*. Special Issue. Vol. 14, Iss. 2, Pp.160-174.
- Comfort, L.K., W.L. Waugh, Jr. and B.A. Cigler. 2012. Emergency Management Research and Practice in Public Administration: Emergence, Evolution, Expansion, and Future Directions. *Public Administration Review*. 30 APR 2012, DOI: 10.1111/j.1540-6210.2012.02549.
- Comfort, LK. 2012. Reflections on the Triple Disasters, March 11, 2011, from an American Perspective. *Emergency Management Studies*, 9, 1-10. (Published in Tokyo, Japan)
- Zagorecki, A., J. Ristvej, L. Comfort, and T. Lovecek. 2012. Executive Dashboard Systems for Emergency Management. *Communications*. Vol. 2, pp. 82-89.
- Comfort, L.K., M.D. Siciliano and A. Okada. 2011. Resilience, Entropy, and Efficiency in Crisis Management: The January 12, 2010 Haiti Earthquake. *Risk, Hazards, and Crisis in Public Policy*. Vol. 2, Iss.3, Art.1. <http://www.psocommons.org/rhcpp/vol2/iss3/art1/>
- Comfort, LK. M.EERI; McAdoo, B.; Sweeney, P; Stebbins, S.; Siciliano, MD; Huggins, LJ; Serrant, T; Scheinert, SR; Augenstein, J, and Krenitsky, N. 2011. Transition from Response to Recovery: A Knowledge Commons to Support Decision Making following the January 12, 2010 Haiti Earthquake. Special Issue on January 12, 2010 Haiti Earthquake. *Earthquake Spectra.*, October. 109105EQS, pp. 1-21.
- Comfort, Louise K. 2011. Distributed cognition: The basis for coordinated action in dynamic environments. *Journal of Emergency Management*. Vol.9 (Special Issue 1), pp.41-46.
- Johnson, D.E.A., A. Zagorecki, J. M. Gelman, and L.K. Comfort. 2011. "Improved Situational Awareness in Emergency Management through Automated Data Analysis and Modeling." *Journal of Homeland Security and Emergency Management*. Vol. 18, Iss. 1, Article 40.
- Comfort, L.K., M.D. Siciliano and A. Okada. 2011. Resilience, Entropy, and Efficiency in Crisis Management: The January 12, 2010 Haiti Earthquake. *Risk, Hazards, and Crisis in Public Policy*. Vol. 2, Iss.3, Art.1. <http://www.psocommons.org/rhcpp/vol2/iss3/art1/>
- Comfort, LK. M.EERI; McAdoo, B.; Sweeney, P; Stebbins, S.; Siciliano, MD; Huggins, LJ; Serrant, T; Scheinert, SR; Augenstein, J, and Krenitsky, N. 2011. Transition from Response To Recovery: A Knowledge Commons to Support Decision Making following the January 12, 2010 Haiti Earthquake. Special Issue on January 12, 2010 Haiti Earthquake. *Earthquake Spectra.*, October. 109105EQS, pp. 1-21.

- Johnson, D.E.A., A. Zagorecki, J. M. Gelman, and L.K. Comfort. 2011. "Improved Situational Awareness in Emergency Management through Automated Data Analysis and Modeling." *Journal of Homeland Security and Emergency Management*. Vol. 18, Iss. 1, Article 40.
- Comfort, Louise K. Michael D. Siciliano, and Aya Okada. 2010. Risque, résilience et reconstruction: le tremblement de terre haïtien du 12 janvier 2010. *Télescope*, vol. 16, n° 2, pp. 37-58.
- Comfort, Louise K., Thomas A. Birkland, Beverly A. Cigler, and Earthea Nance. 2010. Retrospectives and Prospectives on Hurricane Katrina: Five Years and Counting. *Public Administration Review*. September-October, 2010, pp. 669 – 678.
- Comfort, Louise K., Namkyung Oh, and Gunes Ertan. 2009. The Dynamics of Disaster Recovery: Resilience and Entropy in Hurricane Response Systems 2005-2008. *Public Organization Review* 9:309-323.
- Comfort, Louise K., Daniel Mosse and Taieb Znati. 2009. Managing Risk in Real Time: Integrating Information Technology into Disaster Risk Reduction and Response. *Commonwealth: A Journal of Political Science*, Vol. 15, pp. 27-46.
- Comfort, Louise K. 2007. Crisis Management in Hindsight: Cognition, Communication, Coordination, and Control. *Public Administration Review*. Vol. 67. Special Issue, Administrative Failure in the Wake of Katrina. December. Pp. S188-S196.
- Comfort, Louise K. 2007. Inter-Organizational Design for Disaster Management: Cognition, Communication, Coordination, and Control. *Journal of Seismology and Earthquake Engineering, Spring and Summer*, Vol. 9, No. 1, 2: 61 – 71.
- Comfort, Louise K. and Naim Kapucu. 2006. Inter-organizational Coordination in Extreme Events: The World Trade Center Attacks, September 11, 2001. *Natural Hazards*. Vol. 39: 309-327. Received, 9 November 2003. Accepted, 9 June 2005.
- Comfort, Louise K. and Thomas W. Haase. 2006. Communication, Coherence, and Collective Action: The Impact of Hurricane Katrina on Communications Infrastructure. *Public Works Management and Policy*. Vol. 11, No. 1, 1-16.
- Comfort, Louise K. 2006. Cities at Risk: Hurricane Katrina and the Drowning of New Orleans. *Urban Affairs Review*, Vol. 41, Iss. 4: 501-516.
- Comfort, Louise K. 2005. Fragility in Disaster Response: Hurricane Katrina, 29 August 2005. *The Forum*: Vol. 3: No. 3, Article 1. <http://www.bepress.com/forum/vol3/iss3/art1>.
- Comfort, Louise K. 2005. Risk, Security and Disaster Management." 2005. *Annual Review of Political Science*. Vol. 8: 335-356. June. First published online as a Review in Advance on Mar. 17, 2005.
- Comfort, Louise K., Kilkon Ko and Adam Zagorecki. 2004. "Coordination in Rapidly Evolving Systems: The Role of Information." *American Behavioral Scientist*. Vol. 48, No. 3: pp. 295-313.
- Comfort, LK, M. Dunn, D. Johnson, A. Zagorecki, and R. Skertich. 2004. Coordination in Complex Systems: Increasing Efficiency in Disaster Mitigation and Response. *International Journal of Emergency Management*, Vol. 2, Nos. 1-2, pp. 62-80.

- Comfort, Louise K. 2003. Hazard Reduction and Response in Metropolitan Regions. *Regional Development Dialogue*. Vol.24, No. 1, Spring, 2003, pp. 151-163.
- Comfort, Louise K. 2003. Assessment of Homeland Security Initiatives: Commonwealth of Pennsylvania. Invited paper. Century Foundation Study on Homeland Security at the State Level. Century Foundation, New York, New York.
- Comfort, Louise K. 2003. Managing Intergovernmental Response to Terrorism and Other Extreme Events. *Publius*. Vol. 32, No. 4: pp. 29-49.
- Comfort, Louise K. 2002. Institutional Re-orientation and Change: Security as a Learning Strategy.” 2002. *The Forum*, Vol. 1, Issue 2, Article 4, pp. 1-5. <http://www.bepress.com/forum/vol1/iss2/art4/>
- Comfort, Louise K. 2002. Rethinking Security: Organizational Fragility in Extreme Events. *Public Administration Review*. Vol 62, Special Issue (September): 98-107.
- Comfort, Louise K. 2002. Be Prepared! Simulating Sociotechnical Systems in Disaster Environments to Anticipate Robot and Human Responses. *IEEE Robotics and Automation Magazine*, Vol. 9, No. 3 (September): 13-16.
- Comfort, Louise K. 2002. Governance under Fire: Organizational Fragility in Complex Systems. In *Governance and Public Security*. Syracuse, NY: Campbell Public Affairs Institute, Maxwell School of Citizenship and Public Affairs, Syracuse University: pp. 113-127.
- Comfort, L.K., Y. Sungu, D. Johnson, and M. Dunn. 2001. Complex Systems in Crisis: Anticipation and Resilience in Dynamic Environments. *Journal of Crises and Contingencies*, Vol. 9, No. 3: 144-58.
- Comfort, Louise K. 2000. Disaster: Agent of Diplomacy or Change in International Affairs?” 2000. *Cambridge Review of International Affairs*. Winter, Vol. XIV, No. 1: 277-294.
- Comfort, Louise K. 2000. Response Operations following the Chi-Chi (Taiwan) Earthquake: Mobilizing a Rapidly Evolving, Interorganizational System. *Journal of the Chinese Institute of Engineers*, Vol. 23, No. 4: 479-492.
- Comfort, Louise K. 2000. Anticipating Fire: A Sociotechnical Approach to Mitigation. *Technology*. Vol. 7:33-42. An earlier version of this paper was presented at the Conference on Architectural Surety in Albuquerque, New Mexico, May 14-16, 1997.
- Comfort, Louise K. 1999. The Impact of Information Technology upon Disaster Mitigation and Management.” Consiglio Nazionale delle Ricerche.. *La Protezione Civile verso gli Anni 2000*. Firenze, Area della Ricerca di Firenze: 171-180.
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- Comfort, LK, A. Tekin, E. Pretto, B. Kirimli, D. Angus and Other Members of the International, Interdisciplinary Disaster Research Group. 1998. “Time, Knowledge, and Action: The Effect of

Trauma upon Community Capacity for Action.” *International Journal of Mass Emergencies and Disasters*, Vol. 16, No. 1(March): 73-91.

Zajac, Gary and LK Comfort. 1997. “‘The Spirit of Watchfulness’: Public Ethics as Organizational Learning.” 1997. *Journal of Public Administration Research and Theory*. Vol. 7, No. 4 (October): 541-569.

Helmicki, A.J., A.E. Aktan, M. Kam, and LK Comfort. 1997. “Information Technology in Civil Infrastructure System Monitoring: Opportunities and Issues.” *International Workshop on Structural Health Monitoring*. Lancaster, PA: Technomic Publishing Co., Inc.:396-409.

Comfort, LK, Ed. 1997. *Initiating Change: Theory and Practice*. Editor and co-author, Special Issue of the *American Behavioral Scientist*, Sage Publications, Vol. 40, No. 3 (January). Two essays are included in this volume. They are:

Comfort, LK. “Models of Change: A Dialogue between Theory and Practice.” *American Behavioral Scientist*, Vol. 40, No. 3, January, 1997: 259-263.

Comfort, LK. “Toward a Theory of Transition in Complex Systems.” *American Behavioral Scientist*, Vol. 40, No.3, January,1997:375-383.

Guidelines for Disaster Management: Proceedings, United Nations Interregional Seminar on International Disaster Management. 1996. United Nations, NY: Department of Development Support and Management Services. As a consultant to the United Nations for the organization and conduct of the Interregional Seminar on Disaster Management in Jakarta, Indonesia, December 13 - 18, 1993, I also served as principal editor for the proceedings. This volume includes five papers invited by the United Nations as background material for the seminar and two concept papers summarizing the principal recommendations from the seminar. The seminar and the resulting concept papers led to the establishment of the United Nations Global Programme for the Integration of the Science of Disasters and Public Administration, established in January, 1996. The papers include:

“An Interactive, Intelligent, Spatial Information System for International Disaster Management: A Developmental Model.” Concept Paper submitted January 20, 1994. 1996. *Guidelines*: 45-50.

“An International Network for Improving Public Administration Systems in Crisis Management.” Concept Paper submitted September 20, 1994. 1996. *Guidelines*: 51-54.

“Shared Risk: A Dynamic Model of Organizational Learning and Action.” Presented at the Interregional Conference in Jakarta, Indonesia, December 13-18, 1993. 1996. *Guidelines*: 219- 236.

“An Interdisciplinary Quick Assessment Strategy to Support Decision-Making in Disaster Operations: The Costa Rica Earthquake, April 22, 1991.” 1996. *Guidelines*: 237-264.

“Turning Disaster into Development: Designing Policy for Complex Environments in Latin America, with Associates.” 1996. *Guidelines*:265-274.

“Information Technology and the Reduction of Global Risk.” 1996. *The ASPEP Journal 1996*. Falls Church, VA: American Society for Emergency Planners (November):40-49. This paper is also

available on CD-Rom. *Proceedings of the International Symposium on Spectral Sensing Research*. Theme: Crisis Support. Melbourne, Victoria, Australia, 26 November-1 December, 1995.

Comfort, LK and Kevin Pitts. 1996. "Improving Emergency Management: A Total Quality Management Approach." *International Journal of Public Administration*, Vol. 19, Nos. 11 & 12 (November):2141-2166.

Comfort, LK. Editor and Co-author. Special Issue on Risk in remembrance of Aaron Wildavsky, , *Journal of Contingencies and Crisis Management*, Vol. 2, No. 3, September, 1994.

Comfort, LK. 1994. "Risk and Resilience: Interorganizational Learning following the Northridge Earthquake of January 17, 1994." *Journal of Contingencies and Crisis Management*, Vol. 2, No. 3, (September):174-188.

Comfort, LK. Editor and co-author. 1994.Symposium, "Initiating Change: Public Policies and Institutions." *Journal of Public Administration and Theory*, Vol. 4, No. 3 (July, 1994).
"Initiating Change: A Dialogue between Theory and Practice." *Journal of Public Administration Research and Theory*, Vol. 4, No. 3 (July 1994):323-325.

"Self Organization in Complex Systems." *Journal of Public Administration Research and Theory*, Vol. 4, No. 3 (July 1994): 393-410. This article was reprinted with editorial permission in United Nations. 1997. *Guidelines for Disaster Management: Proceedings, United Nations Interregional Seminar on International Disaster Management*. United Nations, NY: Department of Development Support and Management Services:245-258. An earlier version of this paper was presented at the International Seminar on *Sociedad y Prevencion de Desastres*, convened by the Committee of Mexican Social Sciences, Universidad Autonomo de Mexico, Mexico City, DF, February 26-28, 1994.

"Integrating Information Technology into International Crisis Management and Policy." *Journal of Contingencies and Crisis Management*, Vol. 1, No. 1 (March, 1993):17-29. Reprinted with editorial permission in United Nations. 1997. *Guidelines for Disaster Management: Proceedings, United Nations Interregional Seminar on International Disaster Management*. United Nations, NY: Department of Development Support and Management Services:259-278.

Preto, E., E. Ricci, M. Klain, P. Safar, V. Semenov, J. Abrams, S. Tisherman, D. Crippen, L. Comfort and other members of the Disaster Reanimatology Study Group. 1992. "Disaster Reanimatology Potentials: A Structured Interview Study in Armenia. III. Results, Conclusions, and Recommendations. Co-author *Prehospital and Disaster Medicine*, Vol. 7, No. 4 (Oct-Dec.):327-338.

Comfort, L.K. 1991. Designing an Interactive, Intelligent Spatial Information System for International Disaster Assistance. *International Journal of Mass Emergencies and Disasters*, Vol.9, No. 3: 339-353.

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RELATED RESEARCH

Principal investigator, Quick Response Grant, Mapping communication, coordination networks in response to Kahramanmaraş Earthquakes, February 6, 2023. Natural Hazards Center, University of Colorado, Boulder. \$5,000. March 4 – August 21, 2023.

Co-principal investigator, with Kenichi Soga. Designing Smart, Sustainable Risk Reduction in Hazard-Prone Communities, 2023. National Science Foundation grant #2230636, SCC-IRG Track 1. \$2,500,000. 2022-2025. University of California, Berkeley.

Co-principal investigator with Kenichi Soga. Marin County Risk Evacuation Tool, University of California, Berkeley, Agreement #922025. Sonoma Technology, 06/15/22-03/31/23. \$190,400.

Principal Investigator, Swiss Re Foundation Grant No. 6427. COVID-Relief Support. 06/12/20 – 04/30/21. \$54,000.

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Co-Principal Investigator with Kenichi Soga. Collective Action in Communities Exposed to Recurring Hazards: The Camp Fire, Northern California, November 8, 2018 Quick Response Grant 300, National Science Foundation administered by Natural Hazards Center, University of California, Boulder. December 2018 – December 2019. \$4,320.

Co-Principal Investigator, Collaborative Research RSB: A Sequential Decision Framework to Support Trade Space Exploration of Multi-Hazard Resilient and Sustainable Building Designs. This research is an interdisciplinary project conducted in collaboration with Penn State University and the School of Engineering at Pitt. It examines an iterative decision process involving sequential estimates of sustainable building designs, given changing exposure to hazards and risk. The research is supported by National Science Foundation grant #1455424, \$380,811, 3/1/2015—2/28/2020.

Principal Investigator, National Science Foundation grant #OCE 1331463, Hazards SEES Type 2: From Sensors to Tweeters: A Sustainable Sociotechnical Approach for Detecting, Mitigating, and Building Resilience to Hazards, September 1, 2013 – August 31, 2019, \$3,000,000.

Principal Investigator, Scalability and Sustainability in Uncertain Environments: Recovery from the Nepal Earthquakes of April 25 and May 12, 2015. National Science Foundation RAPID: grant #1559687, October 1, 2015-September 30, 2016, \$46,347.

Principal Investigator, Sociotechnical Systems under Stress, National Science Foundation, **RAPID:** CMMI-1447234, \$34,139. August 1, 2014 – July 31, 2015. This project was a collaborative project between the Center for Disaster Mitigation, GSPIA and the Disaster Management and Implementation Research Center, METU, Ankara, Turkey and also supported by GSPIA and the European Center of Excellence, University of Pittsburgh.

Principal Investigator, Developing Community Resilience to Disaster in the Caribbean Region, Widgeon Foundation, \$41,670. January 1, 2013– August 31, 2014.

Principal Investigator, Dynamic Decision Support for Managing Regional Resources, Sponsor: Federal Emergency Management Agency, \$35,000. May 1, 2013-April 30, 2014.

Co-principal Investigator with Taieb Znati, Computer Science, Building Community Resilience to Global Hazards: A Sociotechnical Approach, Global Academic Partnership grant, Global Studies Center, \$20,000. November 1, 2013 – June 30, 2014.

Principal Investigator, Caribbean Disaster Network – Research in Haiti. University Center for International Studies. November 1, 2013 – June 30, 2014. \$3,500.

Principal Investigator, I-Corps: Dynamic Decision Support for Emergency Managers, National Science Foundation, \$50,000, October 1, 2012 – March 31, 2013.

Principal Investigator, Cataloguing the Actions of Workforce Investment Boards during National Disasters. National Association of Workforce Investment Boards, \$5,000. 2/1/13-6/30/13.

Principal Investigator, Reconnaissance Field Study, March 11, 2011 Tohoku Disasters, Japan, October 29 – November 3, 2011

Principal Investigator, Real-Time Robust Decision Making during Emergency Operations.

This project focused specifically on the decision space in which practicing managers select options for action in uncertain environments. The project builds on long-standing research on decision making and was conducted in collaboration with computer scientists, fire department personnel, and researchers at the MITRE Corporation, \$94,443. 9/1/2011-6/30/2012.

Project Lead Investigator, Arm 4, Decision Support Systems. Initially designed to investigate processes of interactive communication, coordination, and control that characterize the “public health system” and budgeted at \$2.7 million, this project was sharply curtailed by federal funding cuts in 2011-2012. Funded through the Center for Public Health Practice, University of Pittsburgh by the Centers for Disease Control and Prevention cooperative agreement number 1P01TP000304-02 REVISED. The project concluded its fourth year on August 15, 2012. Funding was eliminated for the planned fifth year, October 1, 2008 September 30, 2012.

Principal Investigator. “Documenting Networks in Disaster Response & Transition to Recovery in Haiti Earthquake.” Widgeon Foundation, \$29,791. Duration: 2/20/10- 1/11/11.

Principal Investigator, RAPID: Networks in Transition from Response to Recovery following the Haiti Earthquake. National Science Foundation. \$39, 884. Duration: 3/15/10 – 3/14/11.

Principal Investigator: DRU: Designing Resilience for Communities at Risk: Improving Decision Making to Support Collective Action under Stress. National Science Foundation, #0729456. \$734,995. Duration: 9/1/07 - 8/31/2012

Principal Investigator, “Vulnerability Assessment for Flooding in the Pittsburgh Metropolitan Region.” The Pittsburgh Foundation. \$37,5000. August 1, 2006 – July 31, 2007.

Principal Investigator, “Vulnerability Assessment for Flooding in the Pittsburgh Metropolitan Region.” The McCune Foundation. \$75,000. October 1, 2006 – August 31, 2007.

Principal Investigator, “Vulnerability Assessment for Flooding in the Pittsburgh Metropolitan Region.” The Buhl Foundation \$37,200. October 1, 2006 – August 31, 2007.

These three grants represent a collaborative effort of local Pittsburgh foundations to support a trial demonstration of the IISIS prototype in twenty-seven municipalities in the Monongahela Valley that are exposed to recurring risk of flooding.

Co-principal Investigator, “SGER: Exploratory Research on Sensor Based Infrastructure for Early Tsunami Detection.” With Daniel Mosse, Principal Investigator and Taieb Znati, Co-principal Investigator, Department of Computer Science. National Science Foundation Small Grant for Exploratory Research #0549119. \$199,214. September 2005 – August, 2006 (With one year no-cost extension to May, 2007).

Principal Investigator, Interactive, Intelligent, Spatial Information System (IISIS): A Community Model. Continuing research on the redesign and refinement of the IISIS prototype and modules. MountainTop Technologies, Inc. \$25,000. July 15, 2005 – June 30, 2006.

Principal Investigator, “Exploring the Dynamic Interaction among Physical, Constructed, and Organizational Systems in the Great Sumatran Earthquake and Tsunami Disaster, 26 December 2004.

Conducted jointly with researchers from the Pacific Disaster Center, Maui; Bandung Institute of Technology, Bandung, Indonesia, and Department of Geography, Chulalongkorn University, Bangkok, Thailand. University of Pittsburgh, \$7,000. March 3-12, 2005.

Principal Investigator, “Modeling Fragility in Sociotechnical Systems: A Transportation Study.” Principal Investigator, with Milos Hauskrecht, Department of Computer Science and Jeen Shang Lin, Department of Civil Engineering. National Science Foundation Small Grant for Exploratory Research, #0416754. \$60,000. February 2004- July 2005.

Co-principal Investigator, “Secure CITI: A Secure Critical Information Technology Infrastructure for Disaster Management.” With Daniel Mosse, Principal Investigator and Rami Melhem, Co-principal Investigator, Department of Computer Science. National Science Foundation Grant ITR grant #ITR0325353. (\$2,800,000), September 1, 2003-August 31, 2009.

Co-Principal Investigator, A Demonstration of the Integrated, Interactive, Spatial Information System, with Additional Modules of Decision Support. With Panos Chrysanthis and Alexandros Labrinidis. MountainTop Technologies, Inc. \$10,000. 2004. The project received a second grant for \$25,080, July 15-December 31, 2005.

Co-principal Investigator, “Hazard Reduction and Response in Metropolitan Regions: An Interdisciplinary Model,” with Hassan Karimi, School of Information Sciences. Global Academic Partnership Program, University Center for International Studies (\$25,000) and High Performance Computing Center (\$25,000), University of Pittsburgh. June 1, 2002 – May 31, 2003.

Co-principal Investigator, “Terrorism and Corporate Crisis Management: The Strategic Effect of the September 11 Attacks.” With John R. Harrald, Principal Investigator, Julie Ryan, Co-principal Investigator, National Science Foundation Award #0219953. 9/1/02–8/31/03. \$224,024.

Senior Researcher, “Observing and Documenting the Inter-Organizational Response to the September 11 Attacks.” John R. Harrald and Joseph L. Barbera, George Washington University, Co-principal investigators. National Science Foundation Grant #CMS0139309. \$25,000. September 20, 2001 – June 30, 2002.

Member, Reconnaissance Team, World Seismic Safety Institute and Earthquakes in Megacities Initiative, to the Gujarat, India Earthquake, February 23 – March 5, 2001. This research was supported by grants from the Hewlett Fund, Graduate School of Public and International Affairs, University of Pittsburgh, (\$1,000); the Natural Hazards Center, University of Colorado, Boulder (\$1,000); and the National Science Foundation (\$10,613).

Member, Reconnaissance Team, Research Center for Urban Safety and Security, Kobe University, to the ChiChi, Taiwan Earthquake, Taiwan, October 2-10, 1999.

Principal Investigator, “Information Technology and Efficiency in Disaster Response.” National Science Foundation Quick Response Grant for Field Study following the Izmit, Turkey Earthquake of August 17, 1999. \$3,000.

Principal Investigator, “An Interactive, Intelligent, Spatial Information System for Disaster Management: A Community Model.” The Buhl Foundation, \$37,500, July 1, 1997 - June 30, 1998. The project received a continuing grant, \$100,000, from The Buhl Foundation to fund the research from July 1, 1998 through December 31, 1999. The project has been supported by the University of Pittsburgh

from January 1 – December 31, 2000. This project received a grant of \$150,360 from the Public Entity Risk Institute, Fairfax, VA to conduct a trial demonstration project of the IISIS prototype in the Pittsburgh Metropolitan Region, February 1, 2001 – January 31, 2001. This grant was extended with two small planning grants totaling \$15,000 to explore its application to the Delaware Valley Metropolitan Region in Southeastern Pennsylvania.

Principal Investigator, “Shared Risk: Self Organization in Seismic Response.” Graduate School of Public and International Affairs, \$1,000 for translation of Armenian news reports on the 1988 Armenian earthquake.

Principal Investigator, “The Impact of Information Technology upon Disaster Mitigation and Management.” National Science Foundation, March 1, 1997 - September 30, 1997. \$19,997. Related to this award is a request to University of Pittsburgh Research Centers for a Sun Ultra Workstation. Request granted for \$2,500 from the Graduate School of Public and International Affairs. Request granted for \$8,700 from the Office of Research. Total amount for workstation: \$11,200.

Co-Principal Investigator, “An Interactive, Intelligent, Spatial Information System for Disaster Management: A Community Model.” With Shi Kuo Chang, Department of Computer Science. Three related grants were received from three organizations to support research on this project from May 1, 1996 to December 31, 1996. They are: Michael Baker Corporation: \$5,000 in direct contribution and \$35,000 in in-kind contribution of services; The Pittsburgh Foundation, \$37,500; and the Howard Heinz Endowment, \$20,000. In addition, an internship was granted by the National Institute for Environmental Renewal to fund staff work for three months, June-August, 1996: \$4,500. Total direct funding received for project in 1996: \$67,000; total direct and in-kind contributions received in 1996: \$102,000.

Principal Investigator, "Self Organization in Emergency Medical Response: The Great Hanshin, Japan Earthquake of January 17, 1995." Field research in Japan supported by the Natural Hazards Research and Applications Information Center, University of Colorado, Boulder and the University of Pittsburgh, May 5 - 17, 1995.

Principal Investigator, "Self Organization in Disaster Response: The Northridge Earthquake of January 17, 1994." "Small Grant for Exploratory Research, National Science Foundation, #BCS 94-10896, \$5,000. Grant supported field research in Los Angeles following the January 17, 1994 Northridge Earthquake. Findings from this research are incorporated into my book, *Shared Risk: Self Organization in Seismic Response*, cited above.

Principal Investigator, "Self Organization in Response and Recovery from Disaster: The Maharashtra Earthquake of September 30, 1993". Field research in India supported by the Natural Hazards Research and Applications Information Center, University of Colorado, Boulder and the University of Pittsburgh, December 18-26, 1993.

Principal Investigator, "An Interactive, Intelligent, Spatial Information System for Hazardous Materials Management: A Community Model." \$30,000. Developmental research grant awarded by Allegheny County Emergency Management Agency, May 15, 1993-March 31, 1994. Grant extended, \$5,000, April 1- August 31, 1994. Second year renewal: \$41,400. 1994-1995. Additional component: "A Hazardous Materials Commodity Flow Study in Allegheny County, Pennsylvania." \$10,350, January 1 - June 30, 1995.

Principal Investigator, "Turning Disaster into Development: Designing Policy for Complex Environments in Latin America." Heinz Foundation, \$3,000. This funding was used to support a

workshop in Pittsburgh that focused on disaster and related environmental issues in Latin America. Participants included researchers from Mexico, Costa Rica, Peru, and Colombia, as well as four U.S. universities. The purpose of the workshop was to initiate research on problems of shared interest and concern among US and Latin American nations.

Co-Investigator and Team Member, Interdisciplinary Turkish-American Research Team, "Medical Response to the March 13, 1992 Erzincan Earthquake." June 29-July 17, 1992. Field Research in Turkey supported by the Universities of Pittsburgh, Ankara, Ege and the Turkish Government. Office of Research, University of Pittsburgh, \$1,000.

Principal Investigator, Center for Latin American Studies: "Shared Risk: A Dynamic Model of Organizational Learning and Action." \$2,500. Grant was used for revision and completion of data analysis for manuscript, *Shared Risk: Self Organization in Seismic Response*. January 1, 1992-December 31, 1992.

Principal Investigator, "An Interdisciplinary Quick Assessment Strategy for Disaster Management." Project supported field research in Costa Rica, April 24-May 8, 1991. Funding source: Natural Hazards Research and Applications Information Center, University of Colorado, Boulder. \$3,000.

Co-Investigator and Team Member, Reconnaissance Study, Earthquake Engineering Research Institute, El Cerrito, CA and the National Science Foundation. A Quick Response Study of the Loma Prieta Earthquake of October 17, 1989. Field research on interorganizational coordination and communication in disaster operations in Northern California.

Co-Investigator and Team Member, Disaster Reanimatology Study of the Earthquake in Armenia on December 7, 1988. A Collaborative Study by the International Resuscitation Research Center, University of Pittsburgh and the Institute of Reanimatology of the USSR Academy of Medical Sciences, Moscow, USSR. Field research in Moscow and Armenia, March 12-26, 1989.

Principal Investigator, "Interorganizational Coordination in International Disaster Assistance: The December 7, 1988 Earthquake in Soviet Armenia." Funding sources: Natural Hazards Research and Applications Information Center, University of Colorado, Boulder and Center for Russian and East European Studies, University of Pittsburgh. Project supported field research in Armenia and Moscow in March, 1989. \$5,000.

Co-Investigator, "Managing Risk: The Design and Implementation of the Emergency Preparedness and Community Right-to-Know Act of 1986." Funding source: Environmental Protection Agency. This study was conducted in collaboration with the Graduate School of Public Policy, Survey Research Center, and Institute of Governmental Studies, University of California, Berkeley. \$9,900.

Team Leader, Interdisciplinary Committee on Disasters, University of Pittsburgh, with Joel Abrams, Bruce Buchanan, John Camillus and Edmund Ricci. Funding sources: Pittsburgh Foundation, Pittsburgh, PA and the Federal Emergency Management Agency, Cooperative Agreement No. EMW-K-1024, 1988-89. \$33,500.

Principal Investigator, "Interorganizational Coordination in Disaster Management: A Model for an Interactive Information System," National Science Foundation Grant #CES 88-04285, 1989. \$30,000.

Co-Investigator, Quick Response Study Team on Economic and Social Issues, Ecuadorian Earthquakes, March 5-6, 1987, Committee on International Disasters, National Research Council. Project supported field research and data collection in Ecuador in 1987. \$6,000.

Principal Investigator, "Information in International Disaster Assistance: The Ecuadorean Earthquakes of March 5-6, 1987," Tinker Field Research Grant supported travel to Ecuador, 1987. Office of Research Grant supported data entry and analysis. \$3,000.

Principal Investigator, "An Analysis of Group Homes in Allegheny County Neighborhoods," sponsored research project funded by the United Mental Health Council, Allegheny County, Pennsylvania, February 15-August 15, 1987. \$17,500.

Principal Investigator, "Interorganizational Coordination in International Disaster Assistance: The 10 October 1986 Salvadorean Earthquake," project funded by the Natural Hazards Research and Information Applications Center, University of Colorado; research centers at the University of Pittsburgh and the Heinz Endowment, Pittsburgh, PA. Grants supported data collection and field research in El Salvador, October, 1986. \$9,000.

Project Coordinator, "Adaptation of the Integrated Emergency Management Information System to Allegheny County, Pennsylvania," funded by the Office of Research, University of Pittsburgh, July, 1986. \$1,000.

Principal Investigator, "The Decision-Making Process in International Disaster Relief and Recovery Assistance: The Mexican Earthquakes, September 19-20, 1985," project funded by the Natural Hazards Research and Information Applications Center, University of Colorado; research centers at the University of Pittsburgh and the Heinz Endowment, Pittsburgh, PA. Grants supported field research and data collection in Mexico, September-December, 1985. \$9,000.

Principal Investigator, "The Role of Information in Emergency Management," awarded by the Natural Hazards Research and Applications Information Center, University of Colorado for a quick-response study of the May 31, 1985 Tornado Disaster in Pennsylvania, June 1985. \$3,000.

Project Coordinator, Interdisciplinary Research Team, California State University, Hayward, "COMMON GROUND: Defining Effective Public/Private Problem-Solving Processes in Selected East Bay Cities," San Francisco Foundation, 1984. \$10,000.

Project Director, "Instructional Simulation of Interorganizational Decision-Making," awarded by the Committee on Teaching, Academic Senate, University of California, Berkeley, Spring 1984. \$1,000.

Affirmative Action Faculty Development Grants, San Jose State University, Spring and Fall Semesters, 1979. Grants supported writing of manuscript for *Education Policy and Evaluation*, cited above. \$2,000.

Principal Investigator, "A Survey of Selected District and State Educational Administrators and State Legislators Regarding the Implementation of the Elementary and Secondary Education Act in California, 1966-1976," San Jose State University Foundation, Summer 1976. \$5,000.

Co-Investigator, "The Evaluation of Federally Funded Programs in Education," with Eileen Marie Cronin, Director, Raskob Learning Institute, Holy Names College, Raskob Foundation, Wilmington, DE, 1975-1976. \$10,000.

Selected Field Research, Workshops, Reports, Conference Papers, and Presentations: 2010-2020.

Quick Response Report 300. L. Comfort, K. Soga, M. Stacey, M. McElwee, C. Ecosse, J. Dressler, B. Zhao. *Collective Action in Communities Exposed to Recurring Hazards: The Camp Fire, Butte County, November 8, 2018.* Natural Hazards Center, University of Colorado, Boulder.
<https://hazards.colorado.edu/research/quick-response-report/archives>

Field Demonstration: Padang, Indonesia. September 7-8, 2016. Participation in IOWAVE2016, Tsunami preparedness exercise, Indian Ocean Tsunami Warning and Mitigation System, UNESCO.

Field Demonstration: Padang, Indonesia, August 13, 2015. Hazard SEES Land-based communications network. Interdisciplinary project to demonstrate prototype decision support system for early tsunami detection with participants from University of Pittsburgh, Carnegie Mellon University, Northwestern University, Woods Hole Oceanographic Institution, Bandung Institute of Technology, Andalas University, Padang, Indonesia. Supported by NSF Grant #OCE 1331463.

Field Study: Lushan, China. Visit to site of Lushan Earthquake, April 20, 2013. Conducted interviews with emergency managers at Lushan County Office of Emergency Services. June 28-29, 2015.

Field Study: Kathmandu, Bhaktapur, and surrounding region, Nepal. Reconnaissance visit to devastated areas of Kathmandu and surrounding region. Conducted interviews with officials, managers who had responsibility for disaster, recovery operations. June 30 – July 4, 2015.

Invited Speaker/ Participant: NSF Workshop on Multi-Disciplinary Research on Disaster Response Logistics, Arlington, VA. December 1-2, 2014.

Field Study, Disaster Recovery in Fukushima Prefecture, Fukushima, Japan, September 1-3, 2014.

Invited Speaker, Seminar on Disaster Resilience, Tokyo University, Tokyo, Japan, September 1, 2014.

Field Study, Sociotechnical Systems under Stress: The 13 May 2014 Soma Mine Disaster. Interviews conducted at five locations in Turkey: Soma, Manisa, Ankara, Istanbul, Zonguldak, May 15- June 15, 2014.

Invited Speaker, Seminar on Disaster Mitigation, City of Kaynasli, Kaynasli, Turkey, May 22, 2014.

Field Study, *Developing Community Resilience to Disaster* conducted in collaboration with faculty and students at Quisqueya University and the State University of Haiti, Port au Prince, Haiti, April 27-30, 2014.

Presenter, Panel: Emergency Management: Lessons from the Past; Innovations for the Future. Annual Conference, American Society of Public Administration, Washington, DC, March 15-18, 2014.

Panelist, Why was Boston Strong? Conference on Boston Marathon Bombings, Kennedy School, Harvard University, Cambridge, MA, March 14, 2014.

Moderator/Discussant, Panel, Smarter Government in Taiwan, Annual Conference, American Society of Public Administration, Washington, DC, March 15-18, 2014.

Presentation, LK Comfort, J. Yeo, M. Voortman, and B. Colella. Dynamic Decision Support for Emergency Managers. Response Directorate, Federal Emergency Management Agency, Washington, DC, March 12, 2013.

Invited Participant, Review of Commercial Mobile Alert System (CMAS), National Research Council, Washington, DC, February 21, 2013.

Moderator, Comfort LK. Disaster Management in 2011: A Global Perspective. Center for Disaster Management Workshop. O'Hara Student Center, University of Pittsburgh, Pittsburgh, PA, Friday, April 13, 2012.

Invited Participant, Comfort LK. *Workshop on Organizational Reliability*, Vanderbilt University, Nashville, TN, May 4-5, 2012

Panelist, Comfort LK (March 3, 2012) Catastrophic Disasters: Katrina, Haiti, Bp Oil Leak, Snowstorms: A Katrina Taskforce Update. Annual Conference, American Society of Public Administration. Las Vegas, Nevada.

Moderator, Comfort LK (November 3, 2011) Policy Informatics: A Knowledge Commons for Complex Systems – Comparative Perspectives. Annual Research Conference, Association for Public Policy and Management, Washington, DC. November 3-5, 2011.

Co-author, Okada, Aya and LK Comfort, “Black Swan” in Northeastern Japan: Interdependent Systems, Escalating Disaster on March 11, 2011. Annual Research Conference, Association for Public Policy and Management, Washington, DC. November 3-5, 2011.

Field Research, Comfort LK and Aya Okada. Reconnaissance Study of Recovery from 2011 Tohoku Disasters, Miyagi and Iwate Prefectures, Japan. October 29 – November 3, 2011.

Invited Lectures on Disaster Management, Comfort LK. Alliance for Urban Disaster Risk Reduction, Kobe University, Kobe, Japan, October 27-28, 2011.

Panelist. Comfort LK. (May 12, 2011) Public Health in Disaster. Conference on Humanitarian Assistance/Disaster Relief, US Naval War College. Newport, RI. Invited panelist.

Panelist. Comfort LK, Huggins LJ, Okada A, Colella B, Cui J, Dunn MW, Voortman M. (April 19, 2011) Centers of Excellence: Managing Crises in Public Health. How Organizations Think About the Unthinkable: A Risk Management Workshop about Avoiding, Managing and Mitigating Crises. University of California, Washington, DC. Presentation by Comfort LK.

Panelist. Comfort, LK (March 11-13, 2011). Public Administration within Complex, Adaptive Governance Systems,” ASPA Conference, Baltimore, MD, March 2011

Presentation, Comfort LK, Voortman, MJ. (February 23-24, 2011). Decision Support Dashboard. Public Health Adaptive System Studies. Annual Conference, 2011 Public Health Preparedness Summit, National Association of City and County Health Organizations, Atlanta, GA.

Presentation. Comfort LK, Voortman MJ, Huggins LJ, Okada A. (February 3, 2011) Designing a Regional Public Health System Collaborative Research Meeting with MITRE Corporation Researchers, University of Pittsburgh, Pittsburgh, PA.

Presentation. Comfort LK, Huggins LJ, Siciliano MD, Scheinert, SR, Okada A. (6 January 2011) Interdisciplinary Research on Sociotechnical Systems Civil, Mechanical, Manufacturing and Innovation Grantees Workshop, National Science Foundation, Atlanta, GA. Poster presentation by L. Comfort.

Presentation. Comfort LK and Mosse D. (December 13, 2010). Designing Resilience for Communities at Risk: An Early Tsunami Detection and Warning System. National Science Foundation Specialists' Workshop. University of California, Santa Barbara, CA. Invited presentation.

Presentation. Comfort LK, Connelly SS, Cannon GC, Voortman M. (7 December 2010) An Engineering Dashboard for Hospital Systems. MITRE Corporation Research Meeting. Fairfax, VA. Invited presentation.

Invited Presentation. Comfort, LK (September 30-October 1, 2010). Haiti Workshop for RAPID Awardees. National Science Foundation. Arlington, VA.

Panelist. Comfort LK. (11 Jul 2010) Slippery Like Oil: Presidential Power and Disaster Decision Making. Natural Hazards Workshop. Broomfield, CO. Invited panelist. Presentation made by Comfort LK.

Invited Speaker, 2010. *Haiti's Recovery: Getting Beyond the Challenges to Achieve Positive Outcomes*, American Society of Public Administration, Annual Conference, San Jose, CA, April 12.

Panelist, 2010. *The Katrina Task Force: American Society of Public Administration, Annual Conference, San Jose, CA, April 11.*

Moderator, 2010. *Balancing Support and Accountability in Disaster Recovery: Lessons from Katrina*, American Society of Public Administration, Annual Conference, San Jose, CA, April 9.

Participant and Presenter, 2010. *A Dashboard for Hospital Engineering Systems*, Public Health Adaptive Systems Studies Site Visit, Centers for Disease Control & Prevention, Pittsburgh, PA, April 7-8.

Report, 2007. Workshop II: "Socio-Technical Aspects of Cost-Effective, Sensor-Based Infrastructure for Tsunami Detection and Monitoring." University of California. Berkeley, California. November 16 & 17, 2006. Co-author with Daniel Mosse, Taieb Znati, and Thomas Haase. Supported by National Science Foundation Small Grant for Exploratory Research #0549119. September, 2005 – August, 2006. Extension granted to February 28, 2007.

Field Reports submitted to funding agencies summarizing field research activities include the following disasters: Pennsylvania Tornadoes, May 31, 1985; Mexico City Earthquake, September 19, 1985; San Salvador Earthquake, October 10, 1986; Ecuadorian Earthquakes, March 5, 1987; Whittier Narrows, California Earthquake, October 1, 1987; Armenian Earthquakes, December 7, 1988; Loma Prieta Earthquake, California, October 17, 1989; Costa Rica Earthquake, April 22, 1991; Erzincan, Turkey, March 13, 1992; Killari, Maharashtra State, India, September 30, 1993; Northridge Earthquake, California, January 17, 1994; Hanshin, Japan Earthquake, January 17, 1995; Marmara, Turkey Earthquake, 17 August 1999; Duzce, Turkey Earthquake, November 12, 1999; ChiChi, Taiwan Earthquake, 21 September 1999; Gujarat, India Earthquake, 26 January 2001; Sumatran Earthquake and Tsunami, 26 December 2004; Padang, West Sumatra Earthquake 2009; Haiti Earthquake, 2010; Tohoku, Japan Earthquake and Tsunami, 11 March 2011, Soma, Turkey Mine Fire, 13 May 2014.

Selected Invited Lectures, Conference Proceedings, and Other Publications, 2010-2020

Keynote Address: *Operational Networks: Adaptation and Evolution of Disaster Response Systems in China.* Fourth Interdisciplinary Forum on Risk, Disaster & Crisis Research, Nanjing University, Nanjing, China, May 5-6, 2018.

Keynote Address: *Building Capacity for Risk Reduction at the Community Level.* International Disaster Management Conference, Andalas University, Padang, Indonesia, May 2, 2018.

Invited Lectures: *From Sensors to Tweepers: A Sustainable, Sociotechnical Approach for Detecting, Mitigating, and Building Resilience to Hazards.* Bandung Institute of Technology, Bali, Indonesia, August 21, 2017; Padang, Indonesia, August 29, 2017.

Invited Lecture: *The Dynamics of Risk: Changing Technologies, Complex Systems, and Collective Action.* International Workshop on Risk Assessment & Management, Center for Catastrophic Risk Management, University of California, Berkeley, February 25-26, 2016

Invited Lecture: *The Dynamics of Risk: Changing Technologies, Complex Systems, and Collective Action.* School of Public Affairs, Arizona State University. March 24, 2016.

Keynote Address: *Risk, Profit, or Safety: Sociotechnical Systems under Stress.* Multidisciplinary Workshop on Risk, Disaster, and Crisis. School of Public Management, Nanjing University, Nanjing, China, June 26, 2015.

Invited Panelist: *Moving Forward: The Katrina Task Force,* American Society for Public Administration, Chicago, IL, March 6-8, 2015.

Member, Science Board. Global Earthquake Model.Foundation, Public Release. OpenQuake Model of Global Earthquake Catalogue. Pavia, Italy, January 21-22. 2015.

Invited Panelist, AFAD, (Turkish Disaster Management Agency), Review of Strategy Paper for Revision of the Turkish National Disaster Plan, Ankara, Turkey, December 18-19, 2014.

Chair and Organizer, Panel on Digital Technologies, Complex Systems, and Extreme Events: Measuring Change in Policy Networks. Annual Meeting, Association of Public Policy and Management. Albuquerque, NM, November 6-8. 2014.

Panelist, *International Resilience Symposium,* sponsored by National Institute of Standards and Technology, Gaithersburg, MD, September, 3-4, 2014.

Keynote Address, *Disaster Resilience: A Systems Perspective.* International Workshop on Disaster Mitigation sponsored by JANPORA (National Association of Nonprofit Organizations, Japan), Tokyo, Japan, August 31, 2014.

Invited Speaker, *Understanding Risk Haiti* sponsored by the World Bank and Government of Haiti. Port au Prince, Haiti, July 14-16, 2014.

Presenter, Editors' Conference, *Safety Science,* Delft, Netherlands, July 10-11, 2014.

Invited Speaker, International Conference on Multi-Hazard Approaches to Civil Infrastructure Engineering (ICMAE), Chicago, Illinois. June 26-27, 2014

Invited Speaker, *Digital Technologies, Complex Systems, and Extreme Events: Measuring Change In Policy Networks*. Society for Risk Analysis-Europe. Istanbul, June 16-17, 2014.

Invited Speaker, Seminar on Disaster Resilience, Department of Public Administration, Eskesehir University, Eskesehir, Turkey, June 3, 2014

Invited Speaker, Seminar on Disaster Mitigation, Department of Public Administration, Ankara University, Ankara, Turkey, May 28, 2014.

Invited Speaker, Workshop on Multidisciplinary Studies in Disaster Management, Middle East Technical University, Ankara, May 27, 2014.

Invited Presenter, Founders' Forum. Seventy-Five Years of Public Administration Research and Professional Relevance. Annual Conference, American Society of Public Administration, Washington, DC, March 15-18, 2014.

Invited Lecture. Louise K. Comfort and Colleagues, Center for Disaster Management. 2013. Building a Global Commons: Humanitarian Aid in Extreme Events. Issues On Disaster Relief And Humanitarian Aid Conference. University of Wisconsin, Madison. Madison, WI, May 10, 2013.

Invited Panelist. Louise K. Comfort and Research Team, Center for Disaster Management. 2013. Ethics and Disaster: Searching for the *Public Good*. Korean Academy of Public Administration International Conference, October 18-19, 2013. Seoul, South Korea.

Invited Lecture, Comfort, LK. Risk, Resilience, and Redesign: Extreme Events in Comparative Perspective. Program on Global Environment, University of Chicago, Chicago, IL, April 9, 2013.

Panelist, Comfort, LK. National Weather Service Operations Study, National Academy of Public Administration, Washington, DC, Meetings: November 2, 2012, January 8, 2013; February 19, 22, 2013; April 5, 2013.

Presentation, LK Comfort, J. Yeo, M. Voortman, and B. Colella. Role of Workforce Investment System in Disaster: The Impact of Superstorm Sandy, 2012 on the Regional Workforce and the Recovery Process. Annual Conference, National Association of Workforce Boards, Washington, DC. March 12, 2013.

Invited Presentation, Comfort, LK. Interdisciplinary Perspectives on Disaster Risk: Designing Metrics for Community Resilience. Annual Meeting of the Society for Applied Anthropology, Denver, CO, March 21, 2013.

Panelist, Comfort, LK. Louisiana Post Katrina: What's Changed? Annual Meeting, American Society of Public Administration, New Orleans, LA, March 19, 2013.

Presentation, LK Comfort and S. Scheinert, Finding Resilient Networks: Measuring Resilience in Post-Extreme Event Reconstruction and Recovery Missions. Paper presented at the Annual Meeting of the American Society of Public Administration, New Orleans, LA, March 15, 2013.

Member, Comfort, LK. Scientific Board, Global Earthquake Model Biannual Meeting, Pavia, Italy, December 9-12, 2012.

Invited Participant, Comfort, LK. Working Group on Impact of Superstorm Sandy on Public Health Facilities, New York Institute of Medicine, New York, NY, November 16, 2012.

Participants, presenters, LK Comfort, M. Voortman, P. Petrovich. Dynamic Decision Support for Emergency Managers. Innovation Corps Workshop, National Science Foundation, Atlanta, GA, October 1-3, 2012; November 11-13, 2012.

Panelist, LK Comfort. Policy Informatics: Changes and Challenges. Annual Conference, Association of Public Policy and Management. Washington, DC, November 7-9, 2012.

Invited Participant, Comfort, LK Information Systems in Humanitarian Assistance. Workshop on Humanitarian Disaster Assistance, US Naval War College, Newport, R.I., October 24-26, 2012.

Invited Presentation. Comfort, LK, S. Scheinert, J. Yeo, S. Stebbins, R. Schuh, L. Duran, and M. Potter. Preparedness and Response in Public Health Practice: A Comparative Analysis of 4 County Responses to H1N1. Dynamics of Preparedness, PHASYS Conference, University of Pittsburgh, 22 October 2012.

Presentation, LK Comfort, T. Znati, L.E. Freitag, M. Voortman, and Xerandy. Designing Resilience for Communities at Risk: A Framework for Reliable Early Detection of Near-Field Tsunamis. Paper presented at the 5th International Tsunami Symposium, Ispra, Italy, September 3-5, 2012.

Invited Presentations. Comfort, LK T. Znati, L. Friedman, M. Voortman, and Xerandy. Designing Resilience for Communities at Risk: A Framework for Reliable Early Detection of Near-Field Tsunamis. This series of presentations was made to three national agencies in Jakarta, Indonesia: Ministry of Science and Technology; Agency for Meteorology, Climatology, and Geophysics, and the Agency for the Assessment and Application of Technology; as well as to an interdisciplinary, interjurisdictional group of researchers at Andalas University and policy makers, City of Padang, West Sumatra, Indonesia, July 8-10, 2012.

Invited Presentation. Comfort, LK and Aya Okada. Emergent Leadership in Extreme Events: A Knowledge Commons for Sustainable Communities. 8th Transatlantic Dialogue, Workshop on Leadership, Radboud University, Nijmegen, Netherlands, June 7-9, 2012.

Invited Lecture, Comfort, LK (9 May 2012) Complex Adaptive Systems and Network Analysis. School of Government, Nanjing University, Nanjing, China.

Invited Lecture, Comfort, LK (8 May 2012) Interdisciplinary Research in the Social Sciences. Institute of Advanced Studies, Nanjing University, Nanjing, China.

Keynote Address, Comfort, LK (29 March 2012) A Complex System of Systems: The March 11, 2011 Tohoku Disasters. *Disaster Resilience and Sustainability Workshop*. University of Central Florida, Orlando, Florida.

Invited Lecture, Comfort LK. Complex Systems and Disaster Resilience. *International Workshop on Urban Disaster Risk Reduction in Latin America*. Fondo de Prevención y Atención de Emergencias (FOPAE) Bogotá, Colombia, March 5-7, 2012.

Keynote Address. Comfort, LK. (25 February 2012) A Complex System of Systems: The March 11, 2011 Tohoku Disasters. *International Symposium: Rethinking Crisis Management after 3.11*. Meiji University, Tokyo, Japan.

Keynote Address. Comfort, LK. (23 February 2012) “Recovery and Renewal after Disaster: A Knowledge Commons for Sustainable Communities.” International Workshop for *Campus Asia – Fudan, Korea, and Kobe Universities*. Kobe University, Kobe, Japan.

Keynote Address, Comfort, LK. (22 February 2012) A Complex System of Systems: The March 11, 2011 Tohoku Disasters. International Conference of the Japan Association of Disaster Medicine, Kanazawa Medical University, Kanazawa, Japan.

Keynote Address. Comfort LK. (24 May 2011) Designing Resilience for Communities at Risk. International Conference of Democratic Governance and Development of Public Affairs. National Taipei University, Taipei, Taiwan.

Keynote Address. Comfort LK, Huggins LJ, Okada A. (3 May 2011) Building Disaster Resilience in Asia: Recent Events in India, Indonesia, and China. International Workshop On Disaster Risk Reduction In Collaboration With Kobe University (Japan), Rescue 1122 & Comprehensive Health And Education Forum International (Pakistan) Islamabad, Pakistan.

Keynote Lecture. Comfort, LK. (November 23-24, 2010). Designing Resilience for Communities at Risk. 5th Annual International Workshop & Expo on Sumatra Tsunami Disaster & Recovery. Banda Aceh, Sumatra, Indonesia.

Keynote Address. Comfort, LK. (October 28-29, 2010). Designing Resilience for Communities at Risk. Critical Infrastructure Protection Conference. Dalhousie University, Halifax, NS, CA.

Keynote Address. Comfort, LK. (August 8, 2010). Risk, Vulnerability, and Economic Development: The Case for Resilience. Conference on Economic Growth and Emergency Management. Inner Mongolian University, Hohhot, China. August 8-9, 2010.

Member, Advisory Committee and Participant, 2010. *Workshop on Public Response to Alerts and Warnings on Mobile Devices: Current Knowledge and Research Needs*. Sponsored by the National Academies, National Research Council, Washington, DC, April 13-14.

Invited Speaker, 2010. *Distributed Cognition, Networks, and Extreme Events*. Symposium on Emergent Threats in the 21st Century, Division of Global Affairs, Rutgers University, Newark, NJ, March 18-19.

Invited Speaker, 2010. *Building Decision Support for Complex Systems*. CREATE Conference on Risk Perception, University of Southern California, Los Angeles, CA, March 5-6.

Invited Speaker, 2010. *Creating Technical Support for Organizational Performance in Extreme Events*. With R. Skertich, C. Wukich, B. Boylan, M. Siciliano, L. Huggins, S. Scheinert, M. Dunn, and A.

Zagorecki. Public Health Preparedness Summit sponsored by the National Association of County and City Health Officials and the Centers for Disease Control and Prevention. Atlanta, GA, February 17.

TEACHING EXPERIENCE:

Courses offered include:

Doctoral seminars: Organizational Theory; Complex, Adaptive Systems; Multivariate and Network Analysis; Theories of Social Science and Public Policy; Systems Theory; Systems Thinking and Public Policy; Public Policy Field Seminar.

Master's seminars: Policy Analysis, Policy Design and Implementation, Advanced Information Technology and Public Management; Managing Emergencies and Disasters; Quantitative Methods II.

Capstone seminar: “The Digital Divide: Information Technology in Public and International Affairs.”

Doctoral dissertations chaired:

Judith Beachler, 1986

Jeanette Trauth, 1987

Shoei-po Lin, 1989

Jay Shih, 1990

Gary Zajac, 1993

Janis Brooks, 1995

Jiang-hong Lin, 1998

Breana Coates, 1999

Naim Kapucu, 2003

Jun Myung, 2004

Sitki Corbacioglu, 2004

Hyunjoo Chang, 2005

David E.A. Johnson, 2005

Tavida Kamolvej, 2006

Suleyman Celik, 2006

Leonard Huggins, 2007

Robert Skertich, 2008

Paul Danczyk, 2008

Jorge Armando Rodriguez, 2009

Mark Perry, 2009

Thomas W. Haase, 2009

Namkyung Oh, 2010

Clayton Wukich, 2011

Salma El-Haq Yousif, 2011

Michael Siciliano, 2012;

Steven R. Scheinert, 2012

Wen Jiun Wang, 2012

Gunes Ertan, 2013

Jungwon Yeo, 2015

Brian Colella, 2015

Erin McGrath, 2015

Danielle Loustau-Williams, 2016

Farhod Yuldashev, 2018

Yoon Ah Shin, 2019

Sae Mi Chang, 2022

Seunghyun Lee, 2022

Doctoral dissertation committees, member:

Nelson Texiera, 1986
Judith Bradbury, 1988
Rachid Elalj, 1989
Chung-yuang Jan, 1989
Hee Sun Lee, 1989
Andrea Hegedus, 1990
Barbara Gail Wilson, Education, University of Pittsburgh, 1990
Eleanor Breen, 1991
Katherine M. Scott, 1992
Kathy L. Cigana, Education, University of Pittsburgh, 1992
Jan C. Jernigan, 1993
Marina Piscalish, Education, 1997
Hayve Ayse Caner, Education, 1997
Mouzinho Mario, 1997
Scott Monsma, Sociology, 1999
Jeffrey Perkins, 2002
Kathia Monard, Education, University of Pittsburgh, 2002
Jorge Gorostiaga, Education, University of Pittsburgh, 2003
Jo Victoria Goodman, Education, University of Pittsburgh, 2003
Francisco Tellez, Education, University of Pittsburgh, 2004
Kai-hung Fang, 2006
Anne Stahl, 2007
Philip Murphy, 2008
Ekaterina Turkina, 2009
Hui Ling, Computer Science, University of Pittsburgh, 2010
Kathryn Collins, 2011
Aya Okada, 2013
Mónica L. Jacobo Suarez, 2013
Yuchi Song, Education, University of Pittsburgh, 2014
Steven Curnin, University of Tasmania, 2015
Ahmet Izmiroglu, History, University of Pittsburgh, 2015
Trevor Girard, Karlsruhe Institute of Technology, Karlsruhe, Germany, 2017
Rasmus Dahlberg, University of Copenhagen, Copenhagen, Denmark, 2017.
Jonathan Edward Livingston, University of Pittsburgh, 2018
Brian Chalfant, University of Pittsburgh, 2018.
Jee Eun Song, University of Pittsburgh, 2019.
Christian Reuter, Radboud University, Netherlands, 2022

RECENT CONSULTING EXPERIENCE

Consultant, AFAD (Turkish Disaster Management Agency). Ankara, Turkey, October 1- December 31, 2014.

Consultant, U.S. Department of State Antiterrorism Assistance Program, Conducted through American University, June, 2007 – January, 2010.

Consultant, Dirección de Prevención y Atención de Desastres, Municipalidad de Bogotá, Colombia, February 22-26, 2005.

Consultant, Inter-American Development Bank. "Indicators Project for Disaster Risk Management-

Operation ATN/JF-7907-RG. Universidad Nacional de Colombia, the Instituto de Estudios Ambientales, IDEA. Workshop in Barcelona, Spain, June 9 – July 11, 2003.
Consultant, United Nations International Conference on the “Integration of Public Administration with the Science of Disasters.” Sponsored by the Division of Development Support for Management Services, United Nations, in Beijing, China, January 18-28, 1997.

RECENT PROFESSIONAL SERVICE, 2010-2020.

Member, Planning Committee, National Science Foundation Workshop on Convergence, April- June 2021.

Member, Committee of Visitors, Review Panel for National Science Foundation, Directorate for Engineering, Division of Civil, Mechanical, and Manufacturing Innovation, May-July, 2015

Member, Scientific Advisory Board, NORDFORSK, (Nordic research cooperation & infrastructure) Oslo, Norway

Member, Public Policy Committee, Earthquake Engineering Research Institute

External Evaluator, Tenure and Promotion Committees: University of Oklahoma, University of Delaware, University of North Texas, North Carolina State University, University of Massachusetts at Amherst.

Member, Program Committee, International Conference on Digital Government Research, Arizona State University, May 27-29, 2015.

Editor, *Safety Science*, 2012-2013; Associate Editor, 2013-present.

Social Science Editor, *Natural Hazards Review*, October 1, 2017-present.

Book Review Editor, *Journal of Comparative Public Policy*, 2006 – 2014.

Member, Editorial Boards, *Earthquake Spectra*, *Administration & Society*, *Journal of Contingencies and Crisis Management*, *State and Local Government Review*.

Member, *Scientific Board*, *Global Earthquake Model*, 2010 – 2015

Member, Panel to review Cyber Security Governance, National Academy of Public Administration, March 2014- April 2015.

Member, Panel to review National Weather Service Operations, National Academy of Public Administration, November 2, 2012 – April 5, 2013.

Member, Katrina Task Force, American Society for Public Administration, 2005 – present.

Member, Site Visit Team, Engineering Research Centers Program, National Science Foundation to Center for Collaborative Adaptive Sensing of the Atmosphere, University of Massachusetts, Amherst, 2008, 2009, University of Oklahoma, 2010.

Member, Review Panels, National Science Foundation, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021,

Member, Review Panels, Department of Homeland Security. 2013-2014.

Member, Earthquake Engineering Research Institute Reconnaissance Team, Padang Earthquake, Padang, Indonesia, October 8 – 13, 2009.

Invited Lecturer, Japan International Cooperation Agency Training Course for International Disaster Managers, Kobe University, Kobe, November: 2004, 2005, 2006, 2007, 2008, 2009, 2010.

Member, Mosher Award Committee, American Society for Public Administration, 2005-2006

Member, Ethics Committee, American Political Science Association. 2003-2006.

Reviewer, *American Political Science Review*, *Public Administration Review*, *Administration & Society*, *Journal of Public Administration & Theory*, *Journal of Public Policy & Management*, *Earthquake Spectra*, *Public Administration Quarterly*, *Publius*, *Disasters*, *Policy Studies Review*, *International Journal of Mass Emergencies and Disasters*, *American Review of Public Administration*, *European Journal of Policy Studies*.

UNIVERSITY SERVICE, 2006-2017

Director, Center for Disaster Management, 2009-2017
Member, Personnel Committee, GSPIA, 2012-2015
Member, Provost's Mentoring Committee, 2014-2015
Chair, Academic Integrity Committee, GSPIA, 2013-2015
Member, Promotion Review Committee, School of Information Sciences, 2012-2013
Member, Doctoral Studies Committee, GSPIA, 2011-2012
Member, Tenure and Promotion Review, Faculty of Arts and Sciences, 2011
Member, Tenure and Promotion Review, School of Information Sciences, 2009-2010
Member, Faculty Search Committee, School of Education, 2008
Member, University Research Committee, University of Pittsburgh, 2007 - present
Director, Division of Public and Urban Affairs, GSPIA, 2006 - 2008
Member, Planning and Budgeting Committee, GSPIA, 2006 – 2008
Member, Affirmative Action Committee, September 1, 2007 – August 31, 2008.
Co-organizer, with Phyllis Coontz, Symposium in honor of the 10th Anniversary of the Department of Human Services, Allegheny County, September 28, 2008
Chair, Ad Hoc Committee for Contract Renewal, Janne Nolan, 2008.
Chair, Ad Hoc Committee for Third-Year Review on Tenure Contract, Aaron Swoboda, 2008
Member, Faculty Advisory Committee, Center for Latin American Studies, 2004- 2007
Member, Personnel Committee, GSPIA, 2005-2006
Member, Ad Hoc Committee for Reappointment of Lisa Nelson, GSPIA, 2006
Member, Ad Hoc Committee for Promotion of Michael Ramsey, Department of Geology, 2005- 2006.
Director, Public and Urban Affairs Division, 2004-2005; 2006- 2008
Member, Tenure and Promotion Committee, School of Information Sciences, 2001-2003
Member, University of Pittsburgh Senate, 1998-2001
President, Faculty of the Graduate School of Public and International Affairs, University of Pittsburgh, 1996-1997, 2000-2001
Faculty Coordinator, GSPIA, Joint Degree Program with School of Information Sciences, 1997 -present
Chair, Curriculum Review and Evaluation Committee, Graduate School of Public and International Affairs, University of Pittsburgh, 1995-1996; 1996-1997
Faculty Affiliate, University Center for Russian and East European Studies, University of Pittsburgh, 1989 - present
Faculty Affiliate, University Center for Latin American Studies, University of Pittsburgh, 1985 - present
Faculty Affiliate, Center for West European Studies, University of Pittsburgh, 1989 - present
Faculty Affiliate, Asian Studies Center, University of Pittsburgh, 2010 – present

SELECTED PUBLIC SERVICE

Member, Public Safety Pillar, Local Government Academy, Pittsburgh, PA. 2009-2017.
Participant, Region 13 Counter-terrorism Task Force Community Group, 1998-2017.
Member, Public Policy Committee, Earthquake Engineering Research Institute.
Presenter, “Hurricane Katrina: Test of Policy and Practice in Disaster Response” at Flood Symposium, *Weathering the Storm: Lessons from Hurricanes Ivan and Katrina*. Friday, September 15, 2006, Wyndham Garden Hotel, University Place, Pittsburgh, PA. Sponsored by the University of Pittsburgh Graduate School of Public Health, Center for Public Health Preparedness
Chair, Board of Directors, Emergency Information Infrastructure Partnership, 2000-2005.
Member, Emergency Information Infrastructure Planning Group, co-sponsored by the National Emergency Managers Association and the Federal Emergency Management Agency, 1996 – 2000.
Presenter, Demonstration of a Prototype Interactive, Intelligent Spatial Information System, Engineering District 2, Pennsylvania Department of Transportation, Clearfield, PA, October, 2007 and Bureau of Highway Transportation and Safety Engineering, Harrisburg, March 7, 2008.

Presenter, Demonstration of a Prototype Interactive, Intelligent Spatial Information System, Co-Principal Investigator with S.K. Chang, Federal Emergency Management Agency, Washington, DC, September 25, 1995

Presenter, Demonstration of a Prototype Interactive, Intelligent Spatial Information System, with S.K. Chang, at the Information Technology and Communications Conference, co-sponsored by the Federal Emergency Management Agency and the National Emergency Managers Association, Mt. Weather, VA, August 22-24, 1995

Member, Sub-committee on Information Technology, Advisory Committee to the Federal Emergency Management Agency, 1994-1996

FELLOWSHIPS AND HONORS

2020 Don K. Price Book Award, Science, Technology, and Environmental Politics Section, American Political Science Association.

2020 Fred Riggs Lifetime Achievement Award, SICA, American Society of Public Administration, April 3, 2020

Phi Beta Kappa, Honorary Member, Macalester College, 2017

Distinguished Citizen Award, Macalester College, 2016.

Visiting Scholar, Middle East Technical University, Ankara, Turkey, May-June, 2014

Recipient, Provost's Award for Mentoring, University of Pittsburgh, 2008

Fellow, National Academy of Public Administration, Elected November 2006

Fellow, Fulbright Senior Scholar, Instituto de Investigación y Formación en Administración Pública. Universidad Nacional de Córdoba, Córdoba, Argentina, August 12 – 26, 2006.

Invited Member, XIIth Meeting of Experts, United Nations Programme on Public Administration and Finance, United Nations, New York, NY, July 31 - August 11, 1995

Invited Member, National Review Panel on Fire Administration, National Academy for Public Administration, Washington, DC, 1993-1995

Invited Member, National Review Panel on Federal Policy on the Seismic Retrofit of Buildings, National Academy of Public Administration, December 1996-October, 1997.

Nominee, Excellence in Mentoring Award, University of Pittsburgh, 2006-2008.

Who's Who of American Women, 1996

Nominee, Excellence in Teaching Award, Graduate School of Public and International Affairs, 1995-1996

Who's Who in the East, 1994

International Who's Who of Women, 1990

Teaching Excellence Award, Graduate School of Public and International Affairs, University of Pittsburgh, 1989-1990

Sigma Xi, University of Pittsburgh, 1986

Who's Who in the West, 1982

Predocorial Fellowship for Dissertation Research, Council on West European Studies, Yale University, 1972

University Fellowship, Yale University, 1962

Pi Sigma Alpha, University of California, Berkeley, 1957

Sorptionist Fellowship for Graduate Study in Political Science, North Central Region, 1956

Pi Gamma Mu, Macalester College, 1956

Izaak Walton Prize for Conservation, Macalester College, 1956.

PROFESSIONAL AFFILIATIONS

American Political Science Association
American Society for Public Administration
Association of Public Policy and Management
American Association of Advancement of Science
Public Management Research Association
Earthquake Engineering Research Institute
Society for Risk Analysis

LANGUAGES

German, Spanish, French: Intermediate Skills.
Italian: Basic Skills.
Japanese: Beginning.

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