



PUBLICATIONS, REPORTS, and PRESENTATIONS 2005-2009

**New York University's Wagner Graduate School of Public Service
Institute for Civil Infrastructure Systems (ICIS)
for the Institute for Information Infrastructure Protection (The I3P)
at Dartmouth College**

Journal Articles, Book Chapters, and Web-Posted or Published Conference Proceedings

- J. S. Simonoff, C. E. Restrepo, and R. Zimmerman (forthcoming 2009) "Risk Management of Cost Consequences in Natural Gas Transmission and Distribution Infrastructures," *Journal of Loss Prevention in the Process Industries*, accepted for publication.
- C. E. Restrepo, J. S. Simonoff and R. Zimmerman (forthcoming 2009) "Causes, Cost Consequences, and Risk Implications of Accidents in U.S. Hazardous Liquid Pipeline Infrastructure," *International Journal of Critical Infrastructure Protection*, Vols. 1-2, pp. 38-50. doi:10.1016/j.ijcip.2008.09.001.
- R. Zimmerman, C. E. Restrepo, and J. S. Simonoff (2009) "Infrastructure Age, Security and Natural Hazards," *The CIP Report*, Vol. 8 (4), pp. 18, 28, 29.
- R. Zimmerman, C. E. Restrepo, and J. S. Simonoff (forthcoming 2009) "The Age of Infrastructure in a Time of Security and Natural Hazards," *Proceedings of the DHS Aging Infrastructures Workshop*.
- R. Zimmerman and C. E. Restrepo (2009) "Analyzing Cascading Effects within Infrastructure Sectors for Consequence Reduction," *Proceedings of the IEEE International Conference on Technologies for Homeland Security*.
- R. Zimmerman (2008) "Managing Infrastructure Resiliency, Safety and Security," *Encyclopedia of Quantitative Risk Assessment and Analysis*, edited by E. Melnick and B. Everitt. Chichester, UK: John Wiley & Sons, Ltd, pp. 1033-1040.
- J.S. Simonoff, C.E. Restrepo, R. Zimmerman, and Z.S. Naphtali (2007) "Analysis of Electrical Power and Oil and Gas Pipeline Failures," Chapter 27 in *Critical Infrastructure Protection*, edited by E.D. Goetz and S. Sheno. New York, NY: Springer, pp. 381-394.
- R. Zimmerman and C.E. Restrepo (2006) "The Next Step: Quantifying Infrastructure Interdependencies to Improve Security," *International Journal of Critical Infrastructures*, Vol. 2 (2/3), pp. 215-230.
- R. Zimmerman and C.E. Restrepo (2006) "Information Technology (IT) and Critical Infrastructure Interdependencies for Emergency Response," *Proceedings of the 3rd International Community on Information Systems for Crisis Response and Management (ISCRAM06)*, edited by B. Van de Walle and M. Turoff. Newark, NJ: NJIT. 4 pp.

Reports, Fact Sheets and Research Briefs

- R. Zimmerman, J.S. Simonoff, C.E. Restrepo and Z.S. Naphtali. 2007. Understanding Trends, Causes and Consequences of Failures and Attacks on Oil & Gas Pipeline Infrastructure Systems. NYU Fact Sheet.
- J.S. Simonoff, C.E. Restrepo and R. Zimmerman. 2005. Trends for Oil and Gas Terrorist Attacks. I3P Research Report No. 2.
- Research Brief No. 1: Vulnerabilities in the Oil & Gas Sector: International Terrorist Attacks. 2nd I3P Process Control System Security Workshop, June 2006, San Diego, CA.
- Research Brief No. 2: Vulnerabilities in the Oil and Gas Sector Pipeline Networks: Analysis of Office of Pipeline Safety OPS Data. 2nd I3P Process Control System Security Workshop, June 2006, San Diego, CA.
- Research Brief No. 3: Infrastructure Interdependencies and Geographic Concentration for Oil & Gas Process Control System Risk Management. 2nd I3P Process Control System Security Workshop, June 2006, San Diego, CA.

Presentations

- July 21, 2009. R. Zimmerman, Restrepo, C., Simonoff, J., “The Age of Infrastructure in a Time of Security and Natural Hazards,” Aging Infrastructures Workshop, sponsored by the DHS S&T Directorate and Columbia University, New York, NY.
- May 11, 2009. R. Zimmerman Restrepo, C., “Analyzing Cascading Effects within Infrastructure Sectors for Consequence Reduction,” 2009 IEEE International Conference on Technologies for Homeland Security, Waltham, MA.
- September 18, 2007. R. Zimmerman, C.E. Restrepo, Z.S. Naphtali, J.S. Simonoff, “Analyzing Infrastructure Vulnerabilities to Multiple Hazards” Symposium on Emerging Developments in Multi-Hazard Engineering, Co-sponsored by the Architectural Engineering Institute of ASCE (AEI) and the Multidisciplinary Center for Earthquake Engineering Research (MCEER, U. of Buffalo) and sponsored by the Steel Institute of New York. McGraw Hill Conference Center, New York, NY.
- April 19, 2007. R. Zimmerman, Z.S. Naphtali, and C.E. Restrepo, “Spatial concentration of critical infrastructure systems and resource allocation for national security grants,” Association of American Geographers Annual Meeting, San Francisco, CA.
- March 21, 2007. J. S. Simonoff, C. E. Restrepo, R. Zimmerman, and Z.S. Naphtali, “Spatial Distribution of Electricity and Oil and Gas Pipeline Failures,” First Annual International Federation for Information Processing (IFIP) Working Group (WG) 11.10 International Conference on Critical Infrastructure Protection, Dartmouth College, Hanover, NH.
- March 20, 2007. C. E. Restrepo, J. S. Simonoff, and R. Zimmerman. “Vulnerabilities in the Oil and Gas Industry,” First Annual International Federation for Information Processing (IFIP) Working Group (WG) 11.10 International Conference on Critical Infrastructure Protection, Dartmouth College, Hanover, NH.
- February 15, 2007. R. Zimmerman, J. S. Simonoff and C. E. Restrepo. “Understanding Trends, Causes and Consequences of Failures and Attacks on Oil & Gas Pipeline Infrastructure Systems,” I3P Process Control Systems Security Workshop, Houston, TX
- January 22, 2007. R. Zimmerman, “University Research in Transportation Security Planning,” Presentation for the panel, Adapting Transportation Planning to Homeland Security, Transportation Research Board annual conference, Washington, DC.

- December 4-6, 2006. J. S. Simonoff, C.E. Restrepo, and R. Zimmerman, "Measures of Risks of Failure of Oil and Gas Facilities for Energy Risk Management," Society for Risk Analysis (SRA) Annual Meeting. Baltimore, MD.
- November 9-12, 2006. R. Zimmerman and C. Restrepo, "Connectivity and Consistency of Environmental Decision Tools for Community Planning," Association of Collegiate Schools of Planning (ACSP) 2006 Annual Conference, Fort Worth, TX.
- July 11-16, 2006. R. Zimmerman and C.E. Restrepo, "Planning Tools to Protect Border Area Infrastructure," 2006 World Planning Schools Congress, Mexico City, Mexico.
- June 28, 2006. R. Zimmerman, "Vulnerabilities and Critical Infrastructure," Terrorism, Small Arms and Infrastructures Symposium, New York, NY: The New School.
- June 8, 2006. Poster presentation entitled "Critical Infrastructure Interdependencies for the Oil & Gas Industry," 2nd I3P Process Control System Security Workshop, San Diego, CA: Torrey Pines Hotel.
- May 14-17, 2006. R. Zimmerman and C.E. Restrepo, "Information Technology (IT) and Critical Infrastructure Interdependencies for Emergency Response," 3rd International Community on Information Systems for Crisis Response and Management (ISCRAM06) Conference, Newark, NJ: NJIT.
- April 22-26, 2006. R. Zimmerman, "Sustainability and Security," Presentation for American Planning Association 2006 National Planning Conference panel on Local Strategies to Achieve Sustainability, San Antonio, TX.
- April 18, 2006. R. Zimmerman et al. "Infrastructure, Environment and Disasters: Hurricane Katrina," Panel - Hurricane Katrina: Societal Impacts of Civil & Environmental Infrastructure in New Orleans, New York University – Wagner School.
- March 20-22, 2006. C.E. Restrepo, J. S. Simonoff, and R. Zimmerman, "Analyzing Vulnerabilities in the Oil and Gas Sector from Incident Data," The Los Alamos National Laboratories Risk Symposium 2006, Risk Analysis for Homeland Security and Defense: Theory and Application. Santa Fe, NM.
- October 30, 2005. R. Zimmerman, "Environmental Dimensions of Terrorism and Natural Hazards," Association of Collegiate Schools of Planning 46th annual conference, Kansas City, MO.

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