

## ***RICHARD G. LITTLE, AICP***

*Richard G. Little is a private consultant on matters of infrastructure policy, planning, and finance and a Visiting Research Scholar in disaster mitigation at Rensselaer Polytechnic Institute. He was a Senior Fellow in the Price School of Public Policy at the University of Southern California and Director of the USC Keston Institute for Public Finance and Infrastructure Policy prior to retiring in 2012. Before joining USC, he was Director of the Board on Infrastructure and the Constructed Environment of the National Research Council (NRC) where he directed a program of studies in building and infrastructure research. He has conducted numerous studies dealing with life-cycle management and financing of infrastructure, project management, and hazard preparedness and mitigation and has lectured and published extensively on risk management and decision-making for critical infrastructure. Mr. Little has fifty years experience in planning, management, and policy development relating to civil infrastructure, including fifteen years with local government. He has been certified by examination by the American Institute of Certified Planners and is Editor of Public Works Management & Policy. He was elected to the National Academy of Construction in 2008 and appointed to the California Public Infrastructure Advisory Commission in 2009.*

### ***Education***

Rensselaer Polytechnic Institute, Troy, NY

M.S. Urban-Environmental Studies, 1970

B.S. Geology, 1969

### ***Corporate Affiliations***

Richard G. Little, AICP, 1989 – Present

Principal

Rensselaer Polytechnic Institute, 2013 – Present

Visiting Research Scholar, Department of Industrial and Systems Engineering

University of Southern California, 2004 – 2012

Senior Fellow, Price School of Public Policy

Director, Keston Institute for Public Finance and Infrastructure Policy

National Research Council, 1995 – 2004

Director, Board on Infrastructure and the Constructed Environment

BDM Federal, Inc., 1992 – 1995

Manager, Environmental Systems Support

Fairfax County, Virginia, 1975 – 1989

Director, Planning Division, 1986 – 1989

Director, Environment & Policy Division, 1984 – 1986

Chief, Public Facilities Branch, 1980 – 1984

Senior Planner, 1975 – 1980

Linton & Company, 1973 – 1975

Associate

American Gas Association, 1971 – 1973

Staff Engineer

E. D'Appolonia Consulting Engineers, 1970 – 1971

Engineering Geologist

### ***Professional Certifications and Affiliations***

Mercator Fellow, Darmstadt Technological University, DE, 2017 - 2018

National Academy of Construction (elected 2008)

American Institute of Certified Planners (AICP) #044590

Pacific Rim Council on Urban Development (PRCUD) – Treasurer

American Planning Association, Society for Risk Analysis

Editor: *Public Works Management & Policy*; International Project Finance Association, U.S. Council, Member

IEI Faculty Fellow: North Carolina State University, 2010 – 2011

Adjunct Faculty: University of Southern California (2006-present), James Madison University (2002 – 2005), Nanyang Technological University, Singapore (2007)

### ***Public Service***

Member, National Academies, Panel on Review of the Engineering Laboratory at NIST  
March 2014 – March 2015

Member, National Academies, Panel on Building and Fire Research  
October 2009 – October 2010

Member, California Public Infrastructure Advisory Commission  
Chair, Committee on Strategic Directions  
July 2009 – December 2011

Member, Transportation Research Board, Revenue and Finance Committee  
July 2009 – January 2014

Member, National Research Council, Committee on the Assessment of the Bureau of Reclamation's Security Program  
2006 – 2008

### ***China/Asia Experience***

Invited Member, PRCUD Roundtable Forum, Bangkok, Thailand, "New Paradigms for Housing and Urban Development for Thailand," 10-13 March, 2013

Invited Member, PRCUD Roundtable Forum, Yeosu, South Korea, "Yeosu, the World's Scenic Harbor City," 22-25 July, 2012

Invited Presentation, "U.S. Infrastructure: Investment Opportunities in an Era of Restricted Resources," U.S. - China Investment Cooperation Forum, Beijing, China, 17 July, 2012, U.S. Chamber of Commerce

Invited Presentation, "A Sustainable Funding and Financing Strategy for Urban Infrastructure Renewal in China," 2011 Annual Conference, Academic Committee of Foreign Studies in Urban Planning of the Urban Planning Society of China, Tianjin, China, 4-6 November, 2011.

Invited Delegate, Global Economic Leadership Summit, Changchun, China, 4-6 September, 2011

Invited Member, PRCUD Roundtable Forum, Palembang, Indonesia, "Urban Planning and Climate Change in Indonesia," 24-27 July, 2011

Commissioned White Paper, "Building Urban Resilience in East Asia". The World Bank, Washington, DC, 2011

Invited Lecture, "Climate Change: Infrastructure Assets at Risk", PEI Infrastructure Investor Asia, Singapore, 20 October 2010

Invited Member, PRCUD Roundtable Forum, Ho Chi Minh City, Vietnam, "Urban Planning and Development Responses to Climate Change: Adaptation and Mitigation," 10-14 July, 2010

Invited Member, PRCUD Roundtable Forum, Foshan, China, "Urban Transformation in the Fenjiang River Basin/Pearl River Delta," 8-11 November 2009

Invited Lecture, “Flood Protection Options in a Post-Katrina World,” International Public Works Conference, Melbourne, Australia, 8 September 2009

Invited Panelist, *Financial Times* Asia Infrastructure Summit, Singapore, 23 March 2009

Invited Member, PRCUD Roundtable Forum, Siem Reap/Angkor, Kingdom of Cambodia, “Urban Development in the Shadow of Angkor Wat,” 26-29 October 2008

Invited Lecture, “Crucible of Change: The Pearl River Delta and Sustainable Economic Development”, South China University of Technology, June 3, 2008

Instructor, Policy, Planning, and Development International Laboratory, “Finance and Governance Issues in Environmental Infrastructure, Guangdong Province, Pearl River Delta, China”, 25 May-6 June, 2008.

Visiting Faculty in Hazards and Risk, Nanyang Technological University, Singapore, 17-28 September 2007

## **Publications**

### *Articles and Papers*

- Little, R.G. and W.A. Wallace, 2020. “Improving Healthcare Supply Chain Resilience During Extreme Weather Events” *Journal of Critical Infrastructure Policy*, 1(1):69-80.
- Little, R.G., R.A. Loggins, J.E. Mitchell, N. Ni, T.C. Sharkey, and W.A. Wallace. 2019. “CLARC: An Artificial Community for Modeling the Effects of Extreme Hazard Events on Interdependent Civil and Social Infrastructure Systems.” *Journal of Infrastructure Systems*. DOI: [10.1061/\(ASCE\)IS.1943-555X.0000519](https://doi.org/10.1061/(ASCE)IS.1943-555X.0000519).
- Loggins, R., R.G. Little, J. Mitchell, T. Sharkey, and W.A. Wallace, 2019. “CRISIS: Modeling the Restoration of Interdependent Civil and Social Infrastructure Systems Following an Extreme Event.” *Nat. Hazards Rev.*, [10.1061/\(ASCE\)NH.1527-6996.0000326](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000326).
- Ni, N., Little, R.G., Sharkey, T.C. and Wallace, W. (2019) ‘Modeling the recovery of critical commercial services and their interdependencies on civil infrastructures’, *Int. J. Critical Infrastructures*, Vol. 15, No. 4, pp.355–382.
- Little, R., T. Manzanares, and W. Wallace, 2015. "Factors Influencing the Selection of Decision Support Systems for Emergency Management: An Empirical Analysis of Current Use and User Preferences." *Journal of Contingencies and Crisis Management*, 23(4):266-274.
- Little, R., R. Loggins, and W. Wallace, 2015. "Building the Right Tool for the Job: Value of Stakeholder Involvement When Developing Decision-Support Technologies for Emergency Management." *Nat. Hazards Rev.*, [10.1061/\(ASCE\)NH.1527-6996.0000182](https://doi.org/10.1061/(ASCE)NH.1527-6996.0000182) , 05015001.
- Bardet, J-P and R.G. Little, 2014. “Epidemiology of Urban Water Distribution Systems,” *Water Resources Research*, 50(8):6447–6465
- Little, R.G., “The Role of Asset Management in Reducing the Risk of Catastrophic Infrastructure Failure,” *Network Industries Quarterly* | vol. 15 | no 4 | 2013, <http://mir.epfl.ch/page-103084-en.html>
- Little, R.G., “Improved local resilience to climate change: A global imperative,” *Bulletin of the Atomic Scientists*, 24 July 2013, <http://thebulletin.org/improved-local-resilience-climate-change-global-imperative>
- Little, R.G., “Enjoying the Golden Years: Coping with the Challenges of Aging Infrastructure.” *The CIP Report*, 12(3): 2-6.

- Little, R.G., "Urban Alternatives to Building an Ark," Blog Post, *Meeting of the Minds 2013*, <http://cityminded.org/urban-alternatives-to-building-an-ark-7000>
- Little, R.G., "What to do while the water rises?" *Global Change*, No. 80, April 30, 2013, <http://www.igbp.net/publications/globalchangemagazine/globalchangemagazine/globalchangemagazineno80.5.561163a13d60576e12390.html>
- Little, R.G., "Are We Better Off Privatizing Water?" October 8, 2012. *Wall Street Journal*. <http://online.wsj.com/article/SB10000872396390443816804578002280926253750.html?KEYWORDS=Privatizing+Water#articleTabs%3Darticle>.
- Little, R.G., 2012. "Managing the Risk of Aging Infrastructure." Commissioned paper presented at the *Workshop on Public Sector Governance of Emerging Risks*, September 17-18, 2012, Lausanne, Switzerland, International Risk Governance Council. <http://www.irgc.org/risk-governance/improving-anticipation-of-and-early-response-to-emerging-risks/case-studies/>
- Little, R.G., 2012. "Funding and Financing Urban Infrastructure: Comparing Approaches in Brazil and the United States." presented at the *Workshop on Housing and Infrastructure Finance*, August 9, 2012, Sao Paulo, Brazil, EMPLASA.
- Little, R.G. 2012. "A Sustainable Funding and Financing Strategy for Urban Infrastructure Renewal in China." *China City Planning Review*, 7(2):20-28.
- Little, R.G., 2011. "The Emerging Role of Public Private Partnerships in Mega-project Development." *Public Works Management & Policy*, 16(3):240-249.
- Little, R.G, 2010. "More Stimulus Is Just a Band-Aid, the Real Transportation Issues Are More Profound." *Innovation NewsBriefs*, 21(21), September 24, 2010.
- Little, R.G. 2010. "An Informational Summary on Public Private Partnerships." The Keston Institute for Public Finance and Infrastructure Policy.
- Little, R.G. 2010. "Towards a New Federal Role in Infrastructure Investment: Using U.S. Sovereign Wealth to Rebuild America." *Public Works Management & Policy*, 14(3):288-306.
- Gordon, P. and R.G. Little. 2009. "Rethinking Flood Protection: Options and Opportunities for New Orleans." *Public Works Management & Policy*, 14(1):37-54.
- Gordon, P. and R.G. Little. 2008. "Building Walls Against Bad Flood Protection Policy in New Orleans." Policy Primer No. 10. Fairfax, Va. The Mercatus Center.
- Ortiz, I.M., J. Buxbaum, and R.G. Little. 2008. "Protecting the Public Interest: The Role of Long-Term Concession Agreements for Providing Transportation Infrastructure." Proceedings of the 87<sup>th</sup> Annual Meeting of the Transportation Research Board.
- Little, R.G., L.N. Dyble, and T. Gishri. 2007. Options and Opportunities: New Management Paradigms for Balboa Park. The Keston Institute for Public Finance and Infrastructure Policy, University of Southern California, Los Angeles.
- Little, R. G. 2007. Time for an Infrastructure Overhaul. *Urban Land*, 66(8):40-42.
- Little, R.G., W.A. Wallace, T. A. Birkland, and P. Herabat. 2007. Socio-Technological Systems Integration to Support Tsunami Warning and Evacuation. Proceedings of the Fortieth Annual Hawaii International Conference on System Sciences.
- Little, R. G. 2007. Discussion of "Multiparameter Assessment Guide for Emergency Shelters: Disaster Relief Applications" by N.M Bradford and R. Sen. May 2005, Vol. 19, No. 2, pp. 108-116. *Journal of Performance of Constructed Facilities*. 21(1):89-90.
- Birkland, T. A., P. Herabat, R.G. Little, and W.A. Wallace. 2006. Impact of the Boxing Day Tsunami on Tourism in Thailand. *Earthquake Spectra*, 22(S3):S889-S900.
- Little, R. G. 2006. Expanding the Infrastructure Tent: Creating an Inclusive Strategy for Infrastructure Funding. *Public Works Management and Policy*. 11(2):84-88.

- Little, R. G. 2006. California's Infrastructure Outlook. *Area Development*, April/May.
- Little, R. G. 2006. Funding California's Future: Options for Leveraging the Proceeds of SB 1024. The Keston Institute for Infrastructure, University of Southern California, Los Angeles.
- Little, R.G. and E. A. Weaver. 2005. Protection from Extreme Events: Using a Socio-Technological Approach to Evaluate Policy Options. *International Journal of Emergency Management* 2(4):263-274.
- Little, R. 2005. Tending the Infrastructure Commons: Ensuring the Sustainability of Our Vital Public Systems. *Structure and Infrastructure Engineering*. 1(4):263-270.
- Little, R. 2005. Can We Afford Protection from Everything? Using Risk Management to Address the Threat of Urban Terrorism. *Design-Build Dateline*. 12(9). September.
- Little, R.G. 2005. Cities Under Siege. *California Real Estate Journal*. July 25, 2005.
- Little, R.G. 2005. Risk management and protection strategies for buildings and facilities. *Journal of Urban Technology*. 12 (2):71-85.
- Little, R. G. 2005. Financing Civil Infrastructures: Is There a Role for Private Capital Markets? Summary of a Colloquium. July 20, 2005, The University Club, University of Southern California, Los Angeles.
- Little, R. 2005. Organizational Culture and the Performance of Critical Infrastructure: Modeling and Simulation in Socio-technological Systems. Proceedings of the Thirty-Eighth Annual Hawaii International Conference on System Sciences.
- Little, R. 2004. The Role of Organizational Culture and Values in the Performance of Critical Infrastructure Systems. Proceedings of the 2004 IEEE International Conference on Systems, Man, and Cybernetics. October 10-13, 2004, The Hague, The Netherlands.
- Little, R. 2004. A Socio-Technical Systems Approach to Understanding and Enhancing the Reliability of Interdependent Infrastructure Systems. *The International Journal of Emergency Management*. Inderscience, Ltd. 2(1-2):98-110.
- Little, R. 2004. A Holistic Strategy for Urban Security. *Journal of Infrastructure Systems*. American Society of Civil Engineers. 10(2):52-59.
- Little, R. 2004. Protecting People in Buildings from Terrorist Attack. Guest Editorial in *Journal of Performance of Constructed Facilities, Special Issue on Blast Mitigation and Design Against Terrorism*. 18(2):66-67.
- Little, R. 2003. Urban Infrastructure Security. *Technology in Society*. 25:553-555. Elsevier Ltd.
- Little, R. 2003. Toward More Robust Infrastructure: Observations on Improving the Resilience and Reliability of Critical Systems. Proceedings of the Thirty-Sixth Annual Hawaii International Conference on System Sciences. IEEE Computer Society. Los Alamitos, CA.
- Little, R. 2002. A Probabilistic Approach for Protecting People and Buildings from Terrorist Attack and Other Hazards. Proceedings of the International Conference on Protection of Structures Against Hazards, Singapore, 14-15, November 2002. Lok, T.S., T. Hulme, and C. H. Lim, eds. CI-Premier. Singapore.
- Linger, D.A., Baker, G. H., and Little, R. G. 2002. Applications of Underground Structures for the Physical Protection of Critical Infrastructure. North American Tunneling, 2002. Ozdemir, L., ed., A.A. Balkema. Lisse, The Netherlands.
- Little, R. 2002. Controlling Cascading Failure: Understanding the Vulnerabilities of Interconnected Infrastructure. *Journal of Urban Technology*. 9(1):109-123.
- Little, R., Meacham, B., and Smilowitz, R. 2001. A Performance-Based Multi-Objective Decision Framework for Security and Natural Hazard Mitigation. Proceedings of the SAME Force Protection Symposium, Charleston, SC, November 1-3, 2001. Society of American Military Engineers. Alexandria, VA.

- Little, R. 1999. Educating the Infrastructure Professional: A New Curriculum for a New Discipline, *Public Works Management and Policy*. 4(2):93-99.
- Little, R., Schroeder, W., McIntire, G., and Todd, T. 1998. Protecting Our Infrastructure. *The Military Engineer*. 90(590):45-46.
- Little, R., Pattak, P., and Schroeder, W. eds. 1998. Use of Underground Facilities to Protect Critical Infrastructures: Report of a Workshop. National Academy Press. Washington, DC.
- Sevin, E. and Little, R. 1998. Mitigating Terrorist Hazards. *The Bridge*. Fall, 1998. National Academy Press. Washington, DC.

#### *Book Chapters*

- Little, R.G., 2015. "A methodological approach to political risk" in *Managing Risk in Infrastructure Investments*, J. Altman, ed. London, UK. PEI.
- Little, R.G., 2012. "Are Public-Private Partnerships a Solution to Megaproject Delivery Problems?" in *Managing Gigaprojects: Advice from Those Who've Been There, Done That*, P. D. Galloway, K. R. Nielsen, and J. L. Dignum, eds. Reston, Va. The American Society of Civil Engineers.
- Little, R.G. 2010. "Beyond Privatization: Rethinking Private Sector Involvement in the Provision of Civil Infrastructure" in *Physical Infrastructure Development: Balancing the Growth, Equity, and Environmental Imperatives*, W. Ascher and C. Krupp, eds. New York, NY. Palgrave Macmillan.
- Little, R. G. 2009. "Managing the Risk of Cascading Failure in Complex Urban Infrastructures" in *Disrupted Cities: When Infrastructure Fails*. London, UK. Routledge.
- Little, R.G. 2008. "A Clinical Approach to Infrastructure Asset Management?" in *INFRASTRUCTURE REPORTING AND ASSET MANAGEMENT: BEST PRACTICES AND OPPORTUNITIES*. A. Amekudzi and S. McNeil, eds. Reston, Va. The American Society of Civil Engineers.
- Little, R.G. 2007. "Cost-effective strategies to address urban terrorism: a risk management approach" in *The Economic Costs and Consequences of Terrorism*, H. Richardson, P. Gordon, and J. Moore, eds. pp.98-115. Glos, UK. Edward Elgar Publishing, Ltd.
- Little, R. G. 2006. "Competing Objectives" in *Extreme Event Mitigation in Buildings: Analysis and Design*, B. J. Meacham, ed. pp. 63-81. Quincy, Mass. National Fire Protection Association.

#### *Book Reviews*

- Public Works Management & Policy, Sage Publishing, Thousand Oaks, CA
- Volume 25, Number 2, January, 2020. Geography of risk: Epic storms, rising seas, and the costs of America's coasts. G. G. Gael, 2019. New York, NY: Sarah Crichton Books.
- Volume 24, Number 4, July 2019. Meltdown: Why our systems fail and what we can do about it. C. Clearfield & A. Tilcsik, 2018. New York, NY: Penguin Press.
- Volume 24, Number 1, December 2018. The water will come: Rising seas, sinking cities, and the remaking of the civilized world. J Goodell. 2017. New York, NY: Little, Brown and Company.
- Volume 22, Number 4, July 2017. Finnish water services: Experiences in global perspective. T. S. Katko, 2016. Helsinki: Finnish Water Utilities Association.

- Journal of Urban Technology, Carfax Publishing Ltd., Abington, Oxfordshire, UK.
- Volume 12, Number 1, April, 2005. *Terrorism, Risk, and the City: The Making of a Contemporary Urban Landscape*, Jon Coaffee, 2003. Ashgate Publishing Limited, Aldershot, Hampshire, U.K.
- Volume 11, Number 1, April, 2004. *City in the Sky: The Rise and Fall of the World Trade Center*, James Glanz and Eric Lipton, 2003. Henry Holt and Company, New York, N.Y.
- Volume 9, Number 2, August, 2002. *Confronting Suburban Decline: Strategic Planning for Metropolitan Renewal*, William Lucy and David Phillips, 2000. Island Press, Washington, D.C.
- Volume 7, Number 1, April, 2000. *The Metropolis of Tomorrow*, Hugh Ferriss, 1998. Princeton Architectural Press, Princeton, N.J.
- Volume 6, Number 3, December, 1999. *Beyond Edge Cities*, Richard D. Bingham, William M. Bowen, Yosra A. Amara, Lynn W. Bachelor, Jane Dockery, Jack Dustin, Deborah Kimble, Thomas Maraffa, David L. McKee, Kent P. Schwirian, Gail Gordon Sommers, Howard A. Stafford, 1997, Garland Publishing, Inc.
- Volume 5, Number 3, December, 1998. *2025, Scenarios of US and Global Society Reshaped by Science and Technology*, Joseph F. Coates, John B. Mahaffie, and Andy Hines, 1997, Oakhill Press, Greensboro, North Carolina.
- Volume 4, Number 3, December, 1997. *Converging Infrastructures: Intelligent Transportation and the National Information Infrastructure*, Lewis Branscomb and James Keller, eds., 1996, The MIT Press, Cambridge, Massachusetts.
- Volume 3, Number 3, Summer, 1996. *The Local State: Public Money and American Cities*, Eric H. Monkkonen, 1995, Stanford University Press, Stanford, California.
- Volume 3, Number 2, Spring, 1996. *New Visions for Metropolitan America*, Anthony Downs, 1994; The Brookings Institution, Washington, DC, Lincoln Institute of Land Policy, Cambridge, Massachusetts

#### *Invited Presentations*

- “Urban Resilience and Sustainable Economic Growth.” Global Economic Leadership Summit 2011, Changchun, China. September 5, 2011.
- “The Great Tohoku Earthquake and Tsunami: What Can It Teach Us About Preventing Cascading Infrastructure Failures?” World Bank, Washington, DC. April 27, 2011.
- “Infrastructure Investment and U.S. Competitiveness.” *Expert Roundup*, Council on Foreign Relations. April 5, 2011. <http://www.cfr.org/united-states/infrastructure-investment-us-competitiveness/p24585>.
- “Taxes or Tolls: The Political Landscape and Its Impact on Infrastructure Finance.” PEI Infrastructure Investor Chicago. Chicago, IL. November 18, 2010.
- “US Market Update – Time to Invest?” 7<sup>th</sup> Annual IJ Transport and Finance Investment Forum. Turnberry, Scotland. November 9, 2010.
- “Climate Change: Infrastructure Assets at Risk.” PEI Infrastructure Investor Asia. Singapore. October 20, 2010.
- “Managing the Risk of Cascading Failure in Complex Urban Infrastructures.” World Bank, Washington, DC. September 29, 2010.
- “Data Snapshot: Key Global Infrastructure Trends and Developments.” PEI Infrastructure Investor Europe. Berlin. March 30, 2010.
- “Negotiating and Implementing Private Participation in Infrastructure: What the U.S. Can Learn from the World Bank.” World Bank, Washington, DC. May 12, 2008.
- “Does California Need Rail Transportation?” Assembly Select Committee on Rail Transportation, Sacramento, CA. April 3, 2008.

- “Public Private Partnerships for Infrastructure.” ULI Fall Meeting, The Venetian, Las Vegas, NV. October 24, 2007
- “Financial and Political Realities of Infrastructure Investment in 21st Century California.” Presented at the USC-Sacramento Policy Briefing: Financial and Political Realities of Infrastructure Investment in 21st Century California. Sacramento, CA. July 19, 2007
- “Financial and Political Realities of Aging Infrastructure.” Presented at the 2007 Annual Meeting of the Earthquake Engineering Research Institute. Los Angeles, CA. February 9, 2007.
- “Achieving Risk Reduction in Critical Infrastructure Systems.” Presented at the ASCE Symposium, Multi-hazard Hazard Issues In The Central United States, Westin Chicago River North Hotel, Chicago, IL. October 18, 2006
- “Why Infrastructure Matters.” Presented at the 2005 ASCE Los Angeles County Infrastructure Report Card Release. University of Southern California, Los Angeles. October 27, 2005.
- “Cost-effective Strategies to Address Urban Terrorism: A Risk Management Approach.” Presented at the Second CREATE Economics Symposium: Economic Costs & Consequences of a Terrorist Attack. University of Southern California, Los Angeles. August 19, 2005.
- “Using Risk Management to Select Appropriate Protection Strategies for Buildings and Facilities.” Presented at “The Total Facility Management Show.” McCormick Place, Chicago, IL. April 20, 2005
- “Threats to Public Spaces and Policy Tools for Determining an Appropriate Response.” Presented at “Safe Spaces: Designing for Security and Civic Values” Hyatt Regency Chicago. July 26, 2004.
- “Planning For Security: Do Planners Have A Role? Some Thoughts on Protecting Cities From Terrorist Attack.” Presented at the 2003 American Planning Association Annual Meeting. Denver, CO. March 31, 2003.
- “Integrating Technological and Social Infrastructures: Some Thoughts on Protecting Cities from Terrorist Attack” presented at “Engineering the Protection of Our Cities.” Polytechnic University, Brooklyn, N.Y. October 7, 2002.
- “Applications of Underground Structures for the Physical Protection of Critical Infrastructure” presented to NAT2002, Seattle, Washington, May 22, 2002.
- “Controlling Cascading Failure: Understanding the Vulnerabilities of Interconnected Infrastructures” presented at the United States-New Zealand Workshop on Civil Infrastructure Systems: Management of Civil Infrastructure Systems in Multi-hazard Environments held in Christchurch, NZ, October 10-12, 2001.
- “Educating the Infrastructure Professional: A New Curriculum for a New Discipline” presented at the Urban Civil Infrastructure Systems (CIS) Educational Workshop held on June 11-12, 1999 at Polytechnic University, Brooklyn, NY

*Selected NRC Studies (Project Director)*

The Owner’s Role in Project Risk Management, 2005

Intelligent Sustainment and Renewal of Department of Energy Facilities and Infrastructure, 2004



Preventing Earthquake Disasters: the Grand Challenge in Earthquake Engineering, 2003  
Making the Nation Safe From Fire: A Path Forward in Research, 2003  
Working in Olmsted's Shadow: Guidance for the Development of a Scope of Services for the Update of the Master Plan for the U.S. Capitol and Grounds, 2003  
ISC Security Design Criteria for New Federal Office Buildings and Major Modernization Projects: A Review and Commentary, 2002  
Protecting People and Buildings from Terrorism: Technology Transfer for Blast-effects Mitigation, 2001  
Improving Project Management in the Department of Energy, 1999  
Review of the Need for a Large-scale Test Facility for Research on the Effects of Extreme Winds on Structures, 1999  
Protecting Buildings from Bomb Damage: Transfer of Blast-effects Mitigation Technologies from Military to Civilian Applications, 1995

***Contact Data***

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