

Laura J. Steinberg
Syracuse University

EDUCATION:

Ph.D., Civil and Environmental Engineering	Duke University	1993
M.S., Civil and Environmental Engineering (<i>Dean's Scholarship</i>)	Duke University	1989
M.B.A. studies, Graduate School of Business (<i>Joseph Sullivan III Scholarship</i>)	University of Chicago	1984-85
B.S.E., Civil and Urban Engineering (<i>U. of Pennsylvania Scholarships</i>) (<i>National Society of Professional Engineers Scholarship</i>)	University of Pennsylvania	<i>cum laude</i> 1980
Diploma, U.S. Congressional Page High School	Washington, DC	1976
Diploma, West Orange High School	West Orange, NJ	1976

ACADEMIC POSITIONS:

Special Assistant for Strategy to the Vice Chancellor for Innovation and Strategic Initiatives, Office of the Vice Chancellor, Syracuse University, 2017- present.

Chair, Task Force on Innovation and Entrepreneurship, Office of the Vice Chancellor, 2017-present.

Special Assistant to the Chancellor, Office of the Chancellor, Syracuse University, 2015 –2016.

Founding Co-Chair, Chancellor's University Leadership Team, Syracuse University, 2014-15.

Dean, College of Engineering and Computer Science, Syracuse University, Syracuse, NY 2008-2014.

Professor, Department of Civil and Environmental Engineering, and Professor, Maxwell School of Public Affairs (courtesy appointment), Syracuse University, Syracuse NY. 2008-present.

Chair, Department of Environmental and Civil Engineering, Southern Methodist University, Dallas, TX, 2007-2008.

D. J. Lindsay Embrey Trustee Professor, Department of Environmental and Civil Engineering, Southern Methodist University, Dallas, TX, 2006-2008.

Associate Professor, Department of Civil and Environmental Engineering, Tulane University, New Orleans, Louisiana, 2001-2006.

Assistant Professor, Department of Civil and Environmental Engineering, Tulane University, New Orleans, Louisiana, 1995-2001.

Research Fellow, Environmental Modeling, National Institute of Statistical Sciences, Research Triangle Park, North Carolina, 1993-95.

VISITING POSITIONS

Faculty Scholar, Critical Infrastructure Protection Group, Science and Technology Division, Department of Homeland Security, Washington DC, Nov. 2005-August 2006
(Intergovernmental Personnel Act appointment).

Visiting Scientist, Institute for Crisis, Disaster, and Risk Management, The George Washington University, Washington DC 2005-06.

Visiting Scholar, Wagner School of Public Service, Institute for Civil Infrastructure Systems, New York University, March-April, 2004.

Visiting Associate Professor, School of the Environment, Duke University, Durham, North Carolina, 2003-2004.

MANAGEMENT TRAINING:

Institute for Educational Management, **Harvard University Graduate School of Education**, July 2014.

Leadership Development Program, **Center for Creative Leadership**, Greensboro, NC, 2009.

ENGINEERING CONSULTING EXPERIENCE (Full-time):

Geraghty and Miller, Inc., Syosset, New York, 1986.

Manager of Business Development. Responsible for the development of new consulting opportunities in groundwater engineering. Analyzed the profitability of new markets, formulated strategies for market entry, organized and planned the opening of new regional offices.

Louis Berger International, Inc., East Orange, New Jersey, 1980-84.

Environmental Engineering Department Head, Project Manager, Engineer, and Planner. A progression of environmental engineering and planning positions leading to Environmental Engineering Department Head.

SELECTED PROFESSIONAL ACTIVITIES:

- Mentor and Learning Community Advisor, Executive Leadership for Women in Academic Technology and Engineering (ELATE), Drexel University, 2012 – 2014, 2017-present.
- Engineering School Advisory Board Member for: Case Western University and Michigan Technological University, 2013-2016.
- Industry Leaders Council, American Society of Civil Engineers, Member and Committee Chair for Innovation, 2013-present.
- Executive Committee of the Global Engineering Dean's Council, 2012 – 2015 and Member, Public Policy Committee, Engineering Deans Institute, 2009-2015.
- Science Advisory Board (Drinking Water Sub-Committee), US Environmental Protection, 2002-2009.
- Member, Infrastructure and Environmental Subcommittee, Urban Planning Committee, Mayor Nagin's Bring New Orleans Back Committee, 2005.

- Associate Editor, American Society of Civil Engineers (ASCE) *Natural Hazards Review*, 2005-2010.
- Editorial Board, The Berkeley Electronic Press, *Journal of Homeland Security and Emergency Management*, 2003-2010.
- Associate Editor, American Society of Civil Engineers (ASCE) *Journal of Water Resources Planning and Management*, 2002-2005
- Associate Editor, American Society of Civil Engineers (ASCE) *Journal of Environmental Engineering*, 2004-2006.
- Chair, National Energy and Environmental Policy Committee, ASCE, 2003-04.
- Chair, National Environmental Policy Committee, ASCE, 2002-03.
- Fellow, Institute for Civil Infrastructure Systems, NSF-funded institute at New York University, 2000-2004.

HISTORY OF FUNDED PROJECTS:

Veterans STEM Education:

Global Impact Award for Veterans and Higher Education, Google, Co-Investigator for STEM education research, \$50,000, 2013-2015.

Battlefield Perceptions of Engineering: An Institutional Response to Absent Pathways and Missing Engineering Students, National Science Foundation, \$150,000, 2010-2013, Principal Investigator.

From Battlefield to Classroom: Designing Pathways for Engineering for American GIs, National Science Foundation, \$230,000, 2009-2011, Principal Investigator.

Engineering Education:

Project ENGAGE (Empowering the Next Generation: Advancing Girls in Engineering), support from Snow Foundation, Shineman Foundation, Allyn Foundation, and Rothenberg Family Foundation, Principal Investigator, \$60,000 2013-2015.

Inspiring Innovation: Merging Pedagogical Paradigms from Engineering and Architecture, National Science Foundation, \$390,000. 2009-2012, Principal Investigator: Sinead MacNamera.,

How Can You Change the World? The Syracuse University Engineering Summer Academy for Girls, Siemens Foundation, \$107,000, 2012, Principal Investigator.

Summer Program in Environmental Engineering and Science – (SPEES), National Institute for Global Environmental Change, U.S. Department of Energy, 2000-01, \$36,000. Principal Investigator.

Summer Program in Environmental Engineering and Sciences – (SPEES), National Institute for Global Environmental Change, U.S. Department of Energy, 1999. \$30,000. Co-Investigator. Principal Investigator: Ronaldo Luna.

Resilience and Critical Infrastructure:

Complex Event Modeling, Simulation, and Analysis (CEMSA) Project: Review and Analysis, Los Alamos National Laboratory, \$41,000. 2009. Principal Investigator.

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A New Tool for Economic and Environmental Planning - Expanding the Boundaries of LiDAR, (including \$50,000 supplement for work with colleagues in China), National Science Foundation, CISE Directorate, 2007-09, \$125,000. Principal Investigator: William Buckles, University of North Texas.

Critical Infrastructure Protection-Decision Support System (CIPDSS) Validation Study: Baton Rouge Analysis, Los Alamos National Laboratory, \$45,000. 2007-08. Principal Investigator.

Urban Containment Programs and the Vulnerability of Infrastructure to Hazards: Are Cities Being Engineered to be Safe as Well as Smart?, National Science Foundation, 2001-04, \$150,000. Co-Principal Investigator. Principal Investigator: Raymond Burby, University of North Carolina, Chapel Hill.

Natural and Technological Disasters:

Prevalence and Prediction of Conjoint Natural and Technological Disasters, CMMI Directorate, National Science Foundation, 2003-2009, \$210,000. Principal Investigator.

Damage to Industrial Facilities and Subsequent Environmental Contamination by Hurricane Katrina, CMMI Directorate, National Science Foundation, 2005-08, \$30,000. Principal Investigator.

Collaborative Research: E-government and the Preparation of Citizens for Natural Disasters, CISE Directorate, National Science Foundation, 2004-2008, \$325,000. Co-Principal Investigator. Co-Principal Investigator: Victoria Basolo, University of California, Irvine.

Independent Assistance and Assessment, Hurricane Season 2005, US Army Corps of Engineers, Washington DC, \$26,000, through the George Washington University Institute for Crisis, Disaster, and Risk Management. PI: Jack Harrald (L. Steinberg as consultant), 2006.

Supplement to "Collaborative Research: E-government and the Preparation of Citizens for Natural Disasters," 2006, \$75,000. IPA to fund detail to Science and Technology Directorate, Department of Homeland Security, Washington DC.

Public Health Impacts of Hurricane Katrina, National Science Foundation, 2005-07, \$90,000. PI: Kim Shoaf, University of California, Berkeley.

Joint Natural and Technological Disasters in Urban Environments: Are We Prepared? A Case Study, Quick Response Grant, Natural Hazards Center, 2003-05, \$2800. Co-Principal Investigator. Co-Principal Investigator: Ana Maria Cruz, Tulane University.

Hazardous Materials Releases and Associated Emergency Response Efforts in the Turkey Earthquake of August 17, 1999: Implications for Future Risk Management Planning, National Science Foundation, 2000-02, \$75,000. Principal Investigator.

Natural Disasters and Industrial Activities in the Urban Environment: Potential Impacts of Joint Events and Preparedness for Industrial Accidents Caused by Natural Disasters, National Science Foundation, 1999-02, \$241,000. Principal Investigator.

Public Health and Urban Ecology

Control of Urban Container Breeding Arbovirus Vectors National Institutes of Health, 2003-2006, \$2,330,000. Co-Investigator. Principal Investigator: Dawn Wesson, Tulane University.

Collaborative Efforts between the Department of Civil and Environmental Engineering and the Department of Environmental Health Sciences (School of Public Health), internal Tulane University grant to develop joint programs and a joint research center, 2002-05, \$267,000. Principal Investigator.

College of Human and Urban Ecology, internal Tulane University grant to develop a new college to focus on urban and community issues, including undergraduate and graduate programs and a research institute, \$469,000. Co-Investigator. Principal Investigators: Don Gatzke and Ron Marks, Tulane University. 2005.

Biocomplexity -- Incubation Activity: Anopheline Mosquito Adaptation to Urban Environments," National Science Foundation, \$100,000. Senior Collaborator. Principal Investigator: John Beier. 2000-01.

Information Systems Project, Research and Evaluation Group of the Campus Affiliates Program to aid the Housing Authority of New Orleans (HANO), 1996, \$12,000. Co-Investigator. Principal Investigator: Ronaldo Luna.

Water Supply and Water Quality

Water Supply Studies for Lake Whitney, subcontract from Baylor University, \$19,000, Principal Investigator: James Yu, 2008.

Sustainability of Urban Water Supply and Drainage Systems – a New Orleans Case Study, internal funding.

Diffusion of Environmental Technology to Wastewater Treatment Plants – a diffusion of innovations study, external industrial funding, \$1500.

Forging the Link: The Roof Runoff Project, National Science Foundation and Toyota Corporation, in cooperation with Archbishop Rummel High School, \$10,000. Faculty Advisor. Principal Investigator: Ms. Jewel Reuter, high school science teacher. 2001.

Biocomplexity- Incubation Activity: Exploration of Feedback Mechanisms Influencing Contaminant Flux and the Ecology of the Lower Mississippi River System, National Science Foundation, 2000-01, \$99,000. Co-Principal Investigator. Principal Investigator: William George.

Quantifying Urban Non-point Sources of Lead for use in TMDL Computations Louisiana Water Resources Research Institute, United States Geological Survey, 2000-01, \$22,000. Principal Investigator.

Improved Methods for Spatial Modeling of Contaminated Aquatic Sediments, Louisiana Board of Regents, 1997- 01, \$129,000. Principal Investigator.

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Time Series Analysis of Mississippi River Water Quality, subcontract from Freeport-McMoran contract with Tulane University School of Medicine, 1999-01, \$89,000. Principal Investigator.

Development of a Sampling Plan for Roadside Rest Areas, Louisiana Transportation Research Council 1997, \$5000. Principal Investigator.

Fate and Transport Modeling of Radionuclides and Contaminants in Surface Aquatic Environments - Swamps, Bayous and Rivers in Louisiana and Belarus 1997- 98, Dept. of Energy (through the Tulane/Xavier Center for Bioenvironmental Research), November 1996. \$177,000. Co-Investigator. Principal Investigator: Efstathios E. Michaelides

Modeling and Assessment of Environmental Quality of Louisiana Bayous and Swamps, US Department of Energy (through the Tulane/Xavier Center for Bioenvironmental Research), \$53,000. 1997. Principal Investigator.

PROPOSALS CURRENTLY UNDER REVIEW:

Resilience and Critical Infrastructure

Terrorist Critical Infrastructures, Minerva Research Initiative, Dept. of Defense, \$1,500,000, Co-investigator. Principal Investigator: Corrine Zoli

Public Health and Urban Ecology

Developing New Measures of Infrastructure Efficiency to Study the Relationship between the Management of US Cities and Social Mobility of Residents, Russel Sage Foundation, \$29,000. Co-Principal Investigator.

JOURNAL PUBLICATIONS:

(* indicates post-doc or student)

Zoli, Corrine, Laura J. Steinberg and Martha Grabowski, "Terrorist Critical Infrastructures, Organizational Capacity & Risk," *Safety Science*, in press.

Daniel Fay*, Corrine Zoli, and Laura J. Steinberg, "Not Cashing the Higher Education Check: Women's Limited Take Up of GI Bill Benefits," submitted to *Journal of Policy Analysis and Management*.

Cupido, Anthony*, Laura J. Steinberg and Brian Baetz, "Water Conservation: Observations from a Higher Education Facility Management Perspective," *Journal of Green Building*, Summer 2016, Volume 11, No. 2

Basolo, Victoria, Laura J. Steinberg and Stephen Gant, "Hurricane Threat in Florida: Examining Household Beliefs, Perceptions, and Actions," *Environmental Hazards*, published online, January 19, 2017 <http://dx.doi.org/10.1080/17477891.2016.1277968>.

Sengul, Hatice*, Nicholas Santella*, Laura J. Steinberg and Ana Maria Cruz, "Analysis of Hazardous Material Releases Due to Natural Hazards in the U.S," *Disasters: The Journal of Disaster Studies, Policy, and Management*, 36 (4), 723-743, 2012.

Santella, Nicholas* and Laura J. Steinberg, "At the Intersection of Natural, and Technological Hazards: Case Studies of Natech Risk and Relevance to Terrorist Threats at Industrial Facilities," *Journal of Homeland Security and Emergency Management*, Volume 8, Issue 1, Article 53, 2011.

Santella, Nicholas*, Laura J. Steinberg, and Corrinne Zoli, "Baton Rouge Post Katrina: The Role of Critical Infrastructure Modeling in Promoting Resilience," *Homeland Security Affairs* 7, Article 7, 2011.

Santella N., Steinberg L.J., Aguirre G.A. Empirical Estimation of the Conditional Probability of Natech Events Within the United States, *Risk Analysis*, Volume 31, issue 6, pp. 951-968, June 2011.

Santella, Nicholas*, Laura J. Steinberg, Hatice Sengul* and Christina Chermak* "Accidental Hazardous Material Releases with Human Impacts in the United States: Exploration of Geographical Distribution and Temporal Trends," *Journal of Occupational and Environmental Medicine*, 52(9):920-925, September 2010.

Santella, Nicholas*, Laura J. Steinberg, and Hatice Sengul*, "Petroleum and Hazardous Materials Releases from Industrial Facilities Associated with Hurricane Katrina," *Risk Analysis*, 30(4), 635-649, 2010.

Jane Carter and Laura J. Steinberg, "Kouroi, Korai, and Statistics" *American Journal of Archaeology*, January, 2010.

Santella, Nicholas*, Laura J. Steinberg, and Kyle Parks*, "Decision-Making for Extreme Events: Modeling Critical Infrastructure Interdependencies to Aid Mitigation and Response Planning," *Review of Policy Research*, Vol. 26, pp. 409-422, July 2009.

Basolo, Victoria, Laura J. Steinberg, Raymond Burby, Joyce Levine, Ana Maria Cruz* Chihyen Huang*, "The Effects of Confidence in Local Government and Information in Individuals' Perceived and Actual Preparedness for Disasters," *Environment and Behavior*, May 2009, vol. 41: pp. 338 - 364.

Steinberg, Laura J., Hatice Sengul*, and Ana Maria Cruz* "Natech Risk and Management: State of the Art," *Natural Hazards*, (invited), Vol. 46, No. 2, August 2008.

G.B. Arhonditsis, H.W. Paerl, L.M. Valdes-Weaver, C.A. Stow, L.J. Steinberg, and K.H. Reckhow, "Application of Bayesian Structural Equation Modeling for Examining Phytoplankton Dynamics in the Neuse River Estuary (North Carolina, USA)," *Estuarine Coastal and Shelf Science*, Vol. 72, No. 1-2, pp. 63-80, 2007.

Steinberg, Laura J., "Making Good Project Design Choices: Critical Decisions contributing to the Failure of the New Orleans Levees," *Loyola University Law Review* (invited), Vol. 52, no. 4, pp. 1267-1285, Winter 2006.

G.B. Arhonditsis, C.A. Stow, L.J. Steinberg, M.A. Kenney*, S.J. McBride, K.H. Reckhow, "Exploring Ecological patterns with Structural Equation Modeling and Bayesian Analysis," *Ecological Modeling*, Vol. 192, No. 3-4, Feb. 2006.

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Cruz, Ana Maria*, Laura J. Steinberg, and Ana Lisa Vetere Arellano “Emerging Issues in Natch Disaster Risk Management in Europe,” *Journal of Risk Research*, Vol. 9, No. 5, July 2006

Piringer, Gerhard* and Laura J. Steinberg, “Re-Evaluation of Energy Use in Average Wheat Production in the U.S.,” *Journal of Industrial Ecology*, Winter 2006, Vol. 10, No. 1-2.

Reckhow, Kenneth, G.B. Arhonditsis, M.A. Kenney*, L. Hauser*, J. Tribo*, C. Wu*, K.J. Elcock* L.J. Steinberg, C.A. Stow, and S.J. McBride, “A Predictive Approach to Nutrient Criteria”, *Environmental Science and Technology*, 2005, 39(9) 2913-2919.

Cruz, Ana M.* and Laura J. Steinberg, “Industry Preparedness for Hazardous Materials Accidents During the Kocaeli Earthquake,” *Earthquake Spectra*, May 2005, Vol. 21, No. 2.

Steinberg, Laura J, Victoria Basolo, Raymond Burby, Joyce Levine, and Ana M. Cruz*, “Earthquake-Induced Technological Disasters: A Case Study of Possible Effects and Emergency Response in the Urban Environment,” *Natural Hazards Review*, November 2004 Vol. 5, No. 4, pp. 159-169.

Steinberg, Laura J. and Ana Maria Cruz*, “When Natural and Technological Disasters Collide: Lessons from the Turkey Earthquake of August 17, 1999,” *Natural Hazards Review*, August 2004, Vol. 5, No. 3, pp. 121-130.

Burby, R.J., Steinberg, Laura J., and Victoria Basolo, “The Tenure Trap: The Vulnerability of Renters to Joint Natural and Technological Disasters,” *Urban Affairs Review*, 2003, Vol. 39, No. 1, pp. 32-58.

Keating, Joseph*, Kate Macintyre, James L. Regens, Chris Swalm, Charles Mbogo, Andrew Githeko, Laura J. Steinberg, John Githure, & John C. Beier “A Geographic Sampling Strategy for Studying Relationships between Human Activity and Malaria Vectors in Urban Africa,” *American Journal of Tropical Medicine and Hygiene*, 2003, Vol. 68, No. 3, pp. 357-365.

Zheng, Wei*, Ronaldo Luna, and Laura J. Steinberg, “Numerical Simulation of Rain Scavenging on a Large Release of Hydrogen Fluoride,” *Journal of Environmental Engineering*, 129 (1), 2003 pp. 59-67.

Liukkonen, John and Laura J. Steinberg , “Chloroform Alert! University Students Exposed to Unhealthy Air,” *UMAP Journal*, Consortium for Mathematics & Its Applications, Boston MA, 2002, Vol. 23, No. 2, pp. 163-182.

Cruz, Ana Maria*, Laura J. Steinberg, and Ronaldo Luna “Identifying Hurricane-Induced Hazardous Material Release Scenarios in a Petroleum Refinery,” *Natural Hazards Review*, 2001, Vol. 2, No.4.

Bollinger, James*, Laura J. Steinberg, and others, “Nutrient Load Characterization from Integrated-Source Data for the Lower Mississippi River,” *Journal of the American Water Resources Association*, 2000, Vol. 36, No. 6.

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Bollinger, James*, Laura J. Steinberg, and others, "Comparative Analysis Of Nutrient Data In The Mississippi River," *Water Research*, 1999, Vol. 33, pp. 2627-2632.

Belkhouche, Boumediene, Irina Demtchouk*, and Laura J. Steinberg, "Design of Object-Oriented Water Quality Software System," *Journal of Water Resources Planning and Management*, 1999, Vol. 125, No. 5.

Preslan, J.E, B. Belkhouche, C. Swalm, J. Hughes, H.Chen*, M.Henry*, D.Lin, R. Bakeer, A.J. Englande, I. Demtchouk*, M.B.Anderson, L. Regens, J. Means, J. Bollinger, L. Steinberg, R. Luna, R. Hernandez*, W. Hartley, and W. George, "A Database on Water Quality of the Mississippi River," *Environmental Progress*, 1997, Vol. 16, No.3.

Steinberg, Laura J., Kenneth H. Reckhow, and Robert L. Wolpert, "Characterization of Parameters in Mechanistic Models: A Case Study of PCB Fate and Transport in Surface Waters," *Ecological Modeling*, 1997, Vol. 97, No. 1.

Steinberg, Laura J., Kenneth H. Reckhow, and Robert L. Wolpert, "Bayesian Model for Fate and Transport of Polychlorinated Biphenyl in Upper Hudson River" *Journal of Environmental Engineering*, 1996, Vol. 122, No. 5.

Bloomfield, Peter, Andy Royle*, Laura J. Steinberg*, and Qing Yang*, "Accounting for Meteorological Effects in Measuring Urban Ozone Levels and Trends," *Atmospheric Environment*, 1996, Vol. 30, No. 17.

Steinberg, Laura J., Discussion Paper of "Can Civil Engineers Make a Difference by Involvement in the Political Process?," *Journal of Professional Issues in Engineering Education and Practice*, 1992, Vol. 118, No. 1.

BOOK CHAPTERS

Corrine Zoli and Laura J. Steinberg, "Resilience and Critical Infrastructure Security: Emergent Challenges for Transportation and Cyber-Physical Infrastructure," invited book chapter for *Securing Transportation Systems*, editors Simon Hakim and Yoram Shifan, Springer Science, New York, 2015.

Wolpert, Robert L., Laura J. Steinberg, and Kenneth H. Reckhow, "Bayesian Decision Support Using Environmental Transport-and-Fate Models," in: *Case Studies in Bayesian Statistics*, editors: Gatsonis, Constantine, James S. Hodges, Robert E. Kass, and Nozer D. Singpurwalla, Springer Verlag, New York, 1993, pp. 241-296.

INVITED TALKS AND WORKSHOP PARTICIPATION:

Invited speaker, "Conversations on Leadership: Harnessing the Power of the Leader," Executive Leadership for Women in Academic Technology and Engineering (ELATE), Drexel University, August 2017.

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Invited speaker, “Linking Infrastructure Asset Management with Smart City Approaches: An Empirical Study,” 2nd International Symposium on Infrastructure Asset Management, Society for Infrastructure Asset Management, Zurich, June 2017.

Invited speaker, NATO Advanced Research Workshop: Framework for Military Cyber Defense Strategy, Old Dominion University, April 2016.

Invited participant, American Society of Civil Engineers Summit on Sustainability, Washington DC, January 2016.

Invited participant, Economist Intelligence Unit Expert Working Group on Flood Risk Mitigation, Washington DC, December 2015.

Invited panelist, Controlling Economic Cyber Espionage Workshop, Institute for National Security and Counter Terrorism, Syracuse University, June 2015.

Invited talk “Gender and International Development,” Global Development Laboratory, U.S. Agency for International Development, Washington DC, April 2015.

Invited panelist, “Mentoring for New Deans,” Engineering Deans Institute, Scottsdale, Arizona, April 2014

Legislative Update panelist, Engineering Deans Council, Public Policy Workshop, Washington DC, February 2014.

Invited panelist, “Mentoring for New Deans,” Global Engineering Deans Conference, Chicago Illinois, October, 2013 and December 2014, Dubai, UAE

Invited panelist and moderator, “Ethics in Disaster Management,” McDevitt Center for Creativity and Innovation, Lemoyne College, Syracuse NY, October 2013.

Invited panelist, “Conversations on Leadership,” Executive Leadership in Academic Technology and Engineering (ELATE), Drexel University, August 2013.

Invited panelist, “Advice for New Deans,” Engineering Deans Institute, New York, New York, April 2013.

Invited workshop, “High Engagement Strategic Planning Workshop,” Engineering Deans Institute, New York, New York, April 2013.

Invited speaker, “Building Awareness of Engineering Opportunities for Veterans,” (with Corri Zoli), Transitioning Veterans to Engineering-Related Careers Workshop, NSF/American Association for Engineering Education, Washington DC, February 2013.

Invited panelist, “Conversations on Leadership,” Executive Leadership in Academic Technology and Engineering (ELATE), Drexel University, December 2012.

Laura J. Steinberg

Invited speaker, “Community and Infrastructure Resilience: Why Can’t We Get It Right?,” Arthur Levitt Public Affairs Lecture, Hamilton College, NY, November 2012.

Invited panelist, “Advice for New Deans,” Global Engineering Deans Council, Buenos Aires, October 2012.

Invited workshop participant and moderator, “Making Value: Integrating Manufacturing, Design, and Innovation to Thrive in the Changing Global Economy,” National Academy of Engineering, June 2012.

Invited talk, “The Changing World of Engineering Practice: How Can Women Prepare for Success?,” Plenary Speaker, Society of Women Engineers, Mid-Atlantic Conference, Columbia University, March 2012.

Invited talk, “From Battlefield to Classroom: Designing Pathways to College Degrees in Engineering and Science for American GIs,” Program in Women in Science, Engineering, and Math, Rutgers University, September 2011.

Invited Panelist, Risk and Resiliency for Naturo-techno Catastrophic Events, 2nd Conference on Community Resiliency, Virginia Tech – National Capital Region, Arlington VA, September 2011.

Invited Panelist, Environmental Impacts of Natural Hazards, TRB 2011 Transportation Hazards and Security Summit, Transportation Research Board, Irvine California, August 2011.

Invited panelist, “Advice for New Deans,” Engineering Deans Institute, Palm Springs, CA, April, 2011, Hawaii, April 2012.

Distinguished Lecture (with C. Zoli), “From Battlefield to Classroom: Findings, Barriers, and Pathways to Engineering for US Service Members,” National Science Foundation, Arlington, VA, January 2011.

Invited participant, “Workshop on Incorporating Resilience into Critical Infrastructure and Key Resources Research and Development,” National Institute of Building Sciences, Washington, DC, September, 2010.

Invited participant, “Recommendations for Infrastructure Research in FY2012,” US Department of Homeland Security and the US Department of Homeland Security, Feb/March 2010, Washington DC.

Invited panelist, “Advice for New Deans,” Engineering Deans Institute, Louisville, KY, April, 2010.

Invited participant and facilitator, UK-AUSTRALIA-CANADA-US Workshop on Critical Infrastructure Modeling and Simulation, Science and Technology Directorate, US Dept. of Homeland Security, London, April 2009.

Invited talk, “Sustainable Energy Research,” Corning Global Energy Forum, Corning NY, May, 2009.

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Panelist, Workshop on Enhancing the Post-9/11 Veterans Educational Benefit, National Science Foundation, Arlington, VA April, 2009.

Invited talk, The Future of Engineering in the United States, Sloan Foundation and the Rutgers University John J. Heldrich Center for Workforce Development, November 2008.

Invited participant and facilitator, Future Directions in Critical Infrastructure Modeling and Simulation, Science and Technology Directorate, US Dept. of Homeland Security, Suffolk, VA, October, 2008..

Validation of a CIPDSS analysis of Hurricane Katrina's impacts on Baton Rouge LA, DHS Office of Science and Technology, Washington DC, June 2008.

Invited Talk, "Comments on Presentation by James Lee Witt" at: Surviving Future Disasters Workshop sponsored by the Stephenson Disaster Management Institute, Louisiana State University, Baton Rouge, April 2008.

Invited Talk, "Challenges in Implementing Natech Risk Reduction," IIASA-DPRI Forum on Integrated Disaster Risk Management, Coping with Disasters: Global Challenges for the 21st Century and Beyond, Lake Maggiore, Italy, Sept. 2007.

"Learning Lessons from Natech Disasters: Methodological Challenges," with Bastien Affeltranger, B. and Dechy, N. at: Society for Risk Analysis Europe, The Hague, June 2007.

Invited workshop, "Computer Science and Social Science: Dual Perspectives on Interdisciplinary Research in E-Government" at: Digital Government Conference, Philadelphia, PA, May 2007.

Invited panelist, "Facility/System Real-World Cascading Failures Case Studies," at: Cascading Infrastructure Failures: Avoidance and Response Conference, National Academies, Washington DC, May 2007.

Invited talk, "Critical Aspects of Land-Use Planning in Risky Areas in the United States; the Experience of New Orleans before and after Hurricane Katrina," 2nd ARMONIA conference on Land Use Planning in Risky Areas, sponsored by the European Commission, Milan, Italy, February 2007.

Invited talk, "Shifting the Hazards Paradigm: From Response to Mitigation in the Wake of Hurricane Katrina," Joint Research Center, European Commission, Ispra, Italy, February, 2007.

Invited panelist, "Katrina Consequences: What Has the Government Learned?: Levees and Coastal Wetlands," Center for Progressive Reform, Loyola University School of Law, New Orleans, August 2006.

Invited plenary talk (with Ana Maria Cruz), "Managing Chemical Releases from Hurricane Katrina," IIASA-DPRI (International Institute for Applied System Analysis-Disaster Prevention Research Institute), Istanbul, August 2006.

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Invited talk, "State of the Art in Natech Research and Natech Policy," IIASA-ICDRM(International Institute for Applied System Analysis-Disaster Prevention Research Institute), Istanbul, August 2006.

Invited talk, "What Have We Accomplished since August 29th?" Rebuilding for Health, Sustainability, and Disaster Preparedness in the Gulf Coast Region, sponsored by Institute of Medicine and the National Research Council, New Orleans, LA, June 2006.

Invited talk, "Effects of Hurricane Katrina on New Orleans," American Planning Association Conference, San Antonio, TX, April 2006.

Invited talk ."Housing in the Wake of Katrina," American Planning Association Conference, San Antonio, TX, April 2006.

Invited talk, "Resiliency and Recovery in New Orleans after Hurricane Katrina," Disasters Roundtable, National Academies, Washington DC, March 2006.

Invited talk, "Hurricane Katrina and New Orleans: Analysis of a Tragedy," the National Academies, Enterprise and Institutional Risk Management meeting of the Government-University-Industry Research Roundtable, Washington D.C., February 2006.

Invited talk, "Rebuilding New Orleans: Challenges and Opportunities," Building in the Aftermath: Housing in the Wake of Katrina and Other Disasters, National Building Museum, Washington DC, Dec. 2005.

Invited talk, "Industrial Contamination from Hurricane Katrina," with Hatice Sengul, Hurricane Katrina: Environmental Impacts, Henry David Thoreau Foundation, Center for Urban Environmental Studies, Northeastern University, Boston MA, Dec. 2005.

Invited Participant, "Reinhabiting New Orleans, Louisiana," Fannie Mae Corporation and the Tulane School of Architecture, November 2005.

Invited Plenary Session "Hurricane Katrina and New Orleans: Analysis of a Tragedy," Society for Risk Analysis, Orlando, FL, Dec. 2005

Invited Participant, (National Science Foundation-sponsored participation), World Science Forum, Budapest, Hungary, November 2005.

Invited participant, International Symposium: Urban Disaster Risk Reduction and Regeneration Planning, California Polytechnic State University, San Luis Obispo, Nov., 2005.

Plenary Session, "Hurricane Katrina: An Overview of Impacts to New Orleans and Preliminary Assessment of Response Efforts," Society for Risk Analysis Europe, Como, Italy, September, 2005.

"A Systems Approach to Creating Resilient Infrastructure," US/New Zealand Workshop on Avoiding Cascading Failures in Infrastructure, sponsored by the National Science Foundation, August 10-11, 2005.

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“A Systems Approach to Infrastructure Protection,” Critical Infrastructure Protection Research & Development Workshop for Academic and Federal Lab R&D Providers, Department of Homeland Security, Washington DC, June 2005.

“Natechs in the United States: Experience, Safeguards, and Gaps,” Keynote speaker, Workshop on Natech Disaster Risk Management, United Nations/European Union – Joint Research Center, Ispra Italy, October 2003.

“Responding to the Unexpected,” Invited discussant, National Science Foundation-sponsored workshop on responding to unexpected disasters, New York City, February 2002.

“Toward Developing Sustainable Engineering Solutions in a Complex Natural World,” Invited Panelist, National Science Foundation-sponsored workshop, Earth Systems Engineering Program, University of Colorado, Boulder, October 2001.

“An Interdisciplinary View of Risk Assessment and Risk Management,” Invited Talk, White House Office of Science and Technology Policy, Workshop on Critical Infrastructure: Needs in Interdisciplinary Research and Graduate Training, White House Conference Center, Washington D.C., June 2001.

“Workshop on the Diffusion and Adoption of Innovations in Environmental Protection,” Invited Panelist, Science Advisory Board of the United States Environmental Protection Agency, June 2000.

“Natural Disasters and Industrial Activities in the Urban Environment,” Laura J. Steinberg, Invited Talk at the 24th Annual Hazards Research and Applications Workshop, Natural Hazards Research and Applications Information Center, Boulder CO, July 1999.

“Assessing the Geographic and Socio-Demographic Distribution of Exposure to Environmental Contaminants: Applications of Environmental Equity,” Laura J. Steinberg and Jerome Sacks, invited talk, American Statistical Association, Orlando, FL, August 1995.

CONFERENCE PROCEEDINGS:

“Critical Infrastructure Protection: Application of Modeling for Decision Making,” at: Surviving Future Disasters Workshop sponsored by the Stephenson Disaster Management Institute, Louisiana State University, Baton Rouge, April 2008.

“A Preprocessing Method for Automatic Break Lines Detection,” M.Y. Belkouche, B. P. Buckles, X. Yuan, and L. Steinberg, Geoscience and Remote Sensing Symposium, 2008. IGARSS 2008. IEEE International, Volume 2.

“Analysis, Modeling, and Rendering of Urban Flood Events,” with Bill Buckles and Xiaohui Yuan, System demonstration, Digital Government Conference, Montreal, May 2008.

Laura J. Steinberg

“An Adaptive Method for the Construction of Digital Terrain Model from Lidar Data,” Xiaohui Yuan, Liangmei Hu, B.P. Buckles, L. Steinberg, and V. Sarma, Geoscience and Remote Sensing Symposium, 2008. IGARSS 2008. IEEE International, Volume 2.

“Natechs in the United States: Experience, Safeguards, and Gaps,” Keynote Presentation by Laura J. Steinberg. In: Proceedings: NEDIES Workshop – Analysis of Natech Disaster Management, Report EUR 21054EN (2004), Ana Lisa Velere Arellano, Ana Maria Cruz, Jean Pierre Nordvik, Francesco Pisano, Eds. United Nations/European Union – Joint Research Center, Ispra Italy.

“Geostatistical Modeling and Mapping of Sediment Contaminant Concentrations,” Kandiah Ramanitharan, Laura J. Steinberg, and Gerhard Piringer, 19th Annual International Conference on Soils, Sediments, and Water, Amherst, MA, October 2003.

“Earthquake-Induced Technological Disasters: A Case Study of Possible Effects and Emergency Response in the Urban Environment,” Steinberg, Laura J, Victoria Basolo, Raymond Burby, Joyce Levine, and Ana M. Cruz, Earthquake Engineering Research Institute, National Conference in Earthquake Engineering, Boston, July 2002.

“Assessment of Risk Management Practices at Industrial Facilities during the Turkey Earthquake of August 17, 1999,” Ana Maria Cruz, Laura J. Steinberg, Fazilet Van Sukan, and Yasin Ersoz, International Institute for Applied Systems Analysis, Disaster Prevention Research Institute 2001, Vienna, Austria, August 2001 (peer-reviewed web publication).

“Variations in Arsenic Concentrations within a Water Distribution System,” Laura J. Steinberg and Janet Hering, ASCE World Water and Environmental Resources Conference, Orlando, May 2001.

“The Environmental Impact of A Major Earthquake: A Study of the 1999 Turkey Earthquake,” Laura J. Steinberg, Ana Maria Cruz, Fazilet Van Sukan, and Yasin Ersoz, ASCE World Water and Environmental Resources Conference, Orlando, May 2001.

“The Diffusion Of Environmental Technology: A Case Study Of Ultraviolet Disinfection For Wastewater,” Laura J. Steinberg, Jeffrey M. Albrecht, and Victoria Basolo, Session 62 (9 pages), WEFTEC 2000, Water Environment Federation, Anaheim, CA, October 2000.

“Spatial Modeling of Contaminated Sediments in Puget Sound,” Laura J. Steinberg and Kandiah Ramanitharan, Session 46 (13 pages), WEFTEC 2000, Water Environment Federation, Anaheim, CA, October 2000.

“Transport of Dissolved Contaminants within a Stream bed with Bedforms,” Zhi-Gang Feng, Laura J. Steinberg, and Efstathios E. Michaelides, Sediment Transport Modeling Session (7 pages), Water Resources Management and Planning Conference, American Society of Civil Engineers, Minneapolis, MN, July 2000.

“Determination of Bed Shear Stress by Digital Particle Image Velocimetry in Turbulent Open Channel Flow,” James Robert Martin, Jr., Laura J. Steinberg, and Efstathios E. Michaelides, Sedimentation Engineering Session (9 pages), Water Resources Management and Planning Conference, American Society of Civil Engineers, Minneapolis, MN, July 2000.

Laura J. Steinberg

“Time Series Analysis of Lower Mississippi River Nutrient Data,” Laura J. Steinberg, Karen Watanabe, James E. Bollinger, and William George, (3 pages), 218th American Chemical Society National Meeting, New Orleans, August 1999.

“Flow of Radioactive Sediment in Water - The Case of Rivers near Chernobyl,” Melkozerova, O.V., E.E. Michaelides, L.J. Steinberg, N.M. Shiryayeva, G.A. Sharovarov, O. Zhukova, and A.L. Brenkert , (13 pages), 1997 ASME Fluids Engineering Division Summer Meeting, June 1997.

“Fractal Dimension of Cracks Found in Drying Sludge,” Laura J. Steinberg and P. Aarne Vesilind (6 pages), 1990 ASCE Environmental Engineering Conference, July 1990.

TECHNICAL REPORTS AND OTHER PUBLICATIONS:

Steinberg, Laura J. and Sheila Tobias, “Teaching Modern Urban Infrastructure in a New Modality,” Case Studies in Engineering-Enhanced Liberal Education, American Society of Engineering Education, <https://www.asee.org/engineering-enhanced-liberal-education-project/case-studies>, 2017.

Steinberg, Laura J. and Sheila Tobias, “Modern Urban Infrastructure,” Case Studies in Engineering-Enhanced Liberal Education, American Society of Engineering Education, <https://www.asee.org/engineering-enhanced-liberal-education-project/case-studies>, 2017.

Steinberg, Laura J, “Report on the US-UK-Australia-Canada Workshop on Critical Infrastructure Modeling and Simulation,” London, April 30-May 1, 2009, for the US Department of Homeland Security, Science and Technology Directorate. June 2009.

Cruz, Ana Maria, Laura J. Steinberg, Ana Lisa Vetere Arellano, Jean-Pierre Nordvik, and Francisco Pisano, “State of the Art in Natech Risk Management,” United Nations/ European Union Joint Research Center, Report EUR 21292 EN, 2004.

Steinberg, Laura J, “*An Interdisciplinary View of Risk Assessment and Risk Management*,” Workshop on Critical Infrastructure: Needs in Interdisciplinary Research and Graduate Training, White House Office of Science and Technology Policy and the National Science Foundation, June 2001.

Steinberg, Laura J. and John Liukkonen, “*Keeping the Drinking Water Supply Safe*,” Interdisciplinary Lively Application Project (ILAP), Project INTERMATH and the National Science Foundation, Consortium for Mathematics and Its Applications, Lexington MA, 1997.

Steinberg, Laura J. and Peter Bloomfield, “Evaluation of Meteorological Variables for the Parametric Modeling of Rural Ozone,” National Inst. of Statistical Sciences Tech. Report #17, 1994.

Sacks, Jerome and Laura J. Steinberg, “Environmental Equity: Statistical Issues: Report of a Forum,” National Institute of Statistical Sciences Technical Report #11, 1994.

Laura J. Steinberg

U.S. Environmental Protection Agency, Science Advisory Board's Environmental Engineering Committee (Laura J. Steinberg, subcommittee member), "Commentary Resulting from a Workshop on the Diffusion and Adoption of Innovations in Environmental Protection," EPA-SAB-COM-01-001, November 2000.

CONFERENCE PRESENTATIONS AND POSTERS:

"Quantification of Occurrence and Cumulative Probability of Natechs in the U.S.," Nicholas Santella, Laura J. Steinberg, Hatice Sengul, and Ana Maria Cruz, International Disaster and Risk Conference IDRC Davos, Switzerland June 2010. (also at: Hazards and Disasters Researchers' Meeting, Broomfield, CO July 2010.)

"Impacts of Hurricane Katrina Evacuees on Critical Infrastructure in Baton Rouge LA," Laura J. Steinberg, Nicholas Santella, and Kyle Parks, Natural Hazards Research and Applications Workshop at Broomfield, CO, sponsored by the Natural Hazards Center, U. of Colorado, July 2008.

"Learning Lessons from Natech Disasters: Methodological Challenges," with Bastien Affeltranger, B. and Dechy, N. at: Society for Risk Analysis Europe, The Hague, June 2007.

"Hazard Characterization of Joint Natural and Technological Disasters in the United States," Hatice Sengul, Laura J. Steinberg, and Ana Maria Cruz, Society for Risk Analysis conference, Orlando, FL., Dec. 2005.

"A Framework for Analyzing Cascading and Escalating Failures in Natech Disasters," Laura J. Steinberg and Ana Maria Cruz, Society for Risk Analysis conference, Orlando, FL., Dec. 2005.

"Using the Web to Prepare Communities for Natural and Man-made Disasters," Victoria Basolo, Laura J. Steinberg, and Steven Gant, Society for Risk Analysis conference, Orlando, FL., Dec. 2005.

"Analysis of Eq-Hazmat Risk and Emergency Response Practices in Southern California," Laura J. Steinberg, Ana Maria Cruz, and Hatice Sengul, Hazards Research and Applications Workshop, Boulder, CO, July 2005.

"E-government and the Preparation of Citizens for Disasters: A Multi-Disciplinary Study of the Development and Usability of Hazard Information on the Web," Victoria Basolo, Laura J. Steinberg, and Steven Gant, Hazards Research and Applications Workshop, Boulder, CO, July 2005.

"Conjoint Natural and Technological (Natech) Disasters in Europe: A State of the Art Report," Cruz, A. M., Steinberg, L. J., Vetere-Arellano, A. L., Nordvik, J. P., and Pisano, F., Society for Risk Analysis Europe Annual Meeting, Paris, France, November 2004.

"Building Sustainable Communities: Natural and Technological Disasters in Urban Areas," Laura J. Steinberg and Ana Maria Cruz, Green Engineering: Defining the Principles Conference, sponsored by Engineering Conferences International and AIChE, ASME, SAE, NSF and EPA, San Destin, FL, May 2003.

Laura J. Steinberg

“In the Shadow of a Refinery: Preparedness of Vulnerable Populations Exposed to Natech Disasters,” Raymond Burby, Laura J. Steinberg, and Victoria Basolo, International Sociological Association, XV World Conference of Sociology, Brisbane, Australia, July 2002.

“Urban Containment Programs and Exposure of Urban Development to Natural Hazards,” Burby, Raymond, Arthur Nelson, Thomas Sanchez, Mary Margaret Shaw, and Laura J. Steinberg, International Urban Planning and Environment Association, Creating Sustainable Urban Environments, Oxford, September 2002.

“Identifying Hurricane-Induced Hazardous Material Release Scenarios in a Refinery,” Ana Maria Cruz, Laura J. Steinberg, and Ronaldo Luna, The Impact of Hurricane Camille: A Storm Impact Symposium to Mark the 30th Anniversary, New Orleans, August 1999.

“Sustainable Design for the Water Supply and Drainage Infrastructure for New Orleans,” Emery Myers, Laura J. Steinberg, and Glen Boyd, Research Frontiers Conference, Association of Environmental Engineering Professors, State College, PA, July, 1999.

“Time Series Analysis of Lower Mississippi River Nutrient Data,” Laura J. Steinberg, Karen Watanabe, Jim Bollinger, William George, Environmental State of the State Conference, New Orleans, November 1999.

“Spatial Indices of Environmental Hazard,” Laura J. Steinberg and Jerome Sacks, Southern Research Council on Statistics, Melbourne, FL 1995.

REVIEWER FOR:

Journals

Journal of Hydraulic Engineering; Atmospheric Environment; Canadian Journal of Civil Engineering; Ecosystems; Environmental Science and Technology; Journal of Environmental Engineering; Journal of Water Resources Planning and Management; Natural Hazards Review; Water Environment Research; Landscape and Urban Planning; Journal of Homeland Security and Emergency Management; Risk Analysis; Natural Hazards

Proposals and Reports

National Science Foundation proposals in the following program areas: Infrastructure & Information Systems, Geohazards, Human and Social Dynamics, E-Government, IGERT, Bioengineering & Environmental Systems, and Engineering Education; CRESP Consortium for Risk Evaluation with Stakeholder Participation in New Brunswick, New Jersey; National Academy of Sciences, Engineering and Physical Sciences Division, Research Council of Norway, the Canadian Research Council, McMaster University, and others.

FELLOWSHIPS AND AWARDS:

- Outstanding Achievement, National Institute of Statistical Sciences, award for outstanding achievement by a former post-doctoral researcher, 2015.
- Fellow, Institute for Civil Infrastructure Systems, National Science Foundation, 2000-2004.
- National Science Foundation Fellowship to participate in “Teaching Engineers to Teach Engineering,” workshop at U.S. Military Academy, July 1997.

- National Science Foundation Fellowship to participate in “Achieving Success in Academia, An Invitational Conference for Female Faculty and Graduate Students in Engineering,” June 1997.
- Research Fellow, National Institute of Statistical Sciences, 1993-1995.
- Polgar Fellowship, Hudson River Foundation, 1992.
- American Ass. for the Advancement of Science, post-doctoral fellowship, 1992 (declined).
- Jeffrey Taub Award for Outstanding Graduate Student, Dept. of Civil and Environmental Engineering, Duke University, 1989, 1990, and 1991.

KEY CROSS-CAMPUS SERVICE ACTIVITIES FOR SYRACUSE UNIVERSITY:

- Co-chair, Chancellor’s University Leadership Team, 2014-present.
- Co-chair, Veterans and Military Affairs Committee for the Academic Strategic Plan, 2014-2015.
- Steering Committee, university-wide “Innovation and Opportunities” project in collaboration with Bain & Company 2013.
- Dean representative, School of Architecture Dean Search, 2012-13
- Provost’s Committee on Globalization (“Parsing the Global”), 2012-13
- Chancellor’s Sustainability Action Council, 2012- present
- Chancellor’s Committee on Remaking Metropolitan America, 2011
- Board Member, Syracuse Center of Excellence in Environmental and Energy Systems, 2008-present

KEY SERVICE ACTIVITIES FOR SOUTHERN METHODIST UNIVERSITY:

- President’s Task Force on Substance Abuse, 2007-08
- Sustainability Curriculum and Research Planning Committee, 2007-08
- Member, Search Committee for Dean of Dedman College, 2007-08
- Member, Dean’s Strategic Planning Committee, 2006-07
- Member, School of Engineering Tenure and Promotion Committee, 2006-08

KEY SERVICE ACTIVITIES FOR TULANE UNIVERSITY:

Tulane-wide Committees and Programs:

- Member, Provost’s Committee to Create the School of Human and Urban Ecology, 2001-2005.
- Board Member, Women’s Study Center, 2001-2003.
- Adjunct Associate Professor, Tulane School of Public Health, 2001-2006.
- Co-founding member of the interdisciplinary Mississippi River Living/Learning Undergraduate Program, 2000.
- Adjunct Professor, Mathematics Department, 2000.
- Co-founder of the Earth & Ecosystem Sciences interdisciplinary Ph.D. program, 1999-03.
- Co-director and co-founder of Master’s Program in Environmental Statistics, 1998-05.
- CEE representative to the Environmental Studies coordinate major, 1995-05.

Dept of Civil and Environmental Engineering (CEE) and the School of Engineering (SOE):

- CEE Environmental Engineering Area Coordinator, 2004-2006.
- CEE representative to the SOE Tenure and Promotion Committee, 2004-2005.
- CEE representative to the Tulane Graduate School committee for review and reappointment of SOE Dean, 2005.

- Chair of CEE Graduate Studies Committee, 2001- 2003.
- CEE representative to the SOE Graduate Studies Committee, 2001-2003.
- Chair of the undergraduate environmental engineering curriculum committee, 1999-2001, 1995-96.
- CEE representative to the SOE Search Committee for a new Dean, 1998-00.
- Coordinator of the SOE Environmental Engineering Seminar Series, 1997-98.
- CEE representative to the SOE Committee for the YEAR 2000 Strategic Vision, 1996.

ADDITIONAL ADVISORY AND PROFESSIONAL SERVICE ACTIVITIES:

- Panel for Research Agenda Development for Science and Technology Directorate, U. S. Dept. of Homeland Security, Infrastructure and Geophysical Division, 2010
- Program Committee, International Conference on Information Systems for Crisis Response and Management, Washington DC, May 2008.
- Program Committee, E-Government Conference, 2007, 2008 (Workshop & Tutorial chair/co-chair).
- International Scientific Committee, IIASA-DPRI Forum on Integrated Disaster Risk Management, Coping with Disasters: Global Challenges for the 21st Century and Beyond, Lake Maggiore, Italy, Sept. 2007.
- Symposium Co-organizer, Society for Risk Analysis Europe, Natural-Technological Events: Lessons and Challenges for Mitigation and Response, June 2007.
- Co-Technical Chair, *International Conference on Probabilistic Safety Assessment and Management*, International Association for Probabilistic Safety Assessment and Management, Seattle WA, May 2006.
- Member, National Water Policy Committee, ASCE, Reston, VA. 1997-02.
- Chair, ASCE Environmental/Water Resources Committee, New Orleans Branch, 1997-01.
- Member, Subcommittee on Diffusion and Adoption of Innovations in Environmental Protection, Science Advisory Board, US Environmental Protection Agency, 2000.

ENGINEERING CONSULTING EXPERIENCE (Full-time, part-time, and summer):

Louis Berger International, Inc., East Orange, New Jersey, 1980-84.

Environmental Engineering Department Head, Project Manager, Engineer, and Planner. A progression of environmental engineering and planning positions leading to Environmental Engineering Department Head. Projects included water and wastewater engineering design, environmental impact assessment for the MX missile, wastewater treatment planning for Nigeria, capacity analysis of the Mississippi River lock and dam system, economic analysis of highway improvements, environmental permit preparation, and other projects.

Geraghty and Miller, Inc., Syosset, New York, 1986.

Manager of Business Development. Responsible for the development of new consulting opportunities in groundwater engineering. Analyzed the profitability of new markets, formulated strategies for market entry, organized and planned the opening of new regional offices

Alliance Technologies, Chapel Hill, North Carolina, 1987-92.

Environmental Engineer (part-time while attending Duke University). Water quality modeling, sanitary sewer layout and design, and mobile source emissions analyses for air quality studies.

Laura J. Steinberg

North Carolina Environmental Defense Fund, Raleigh, North Carolina, Summer 1987.
Consultant. Investigated hazardous waste disposal options for North Carolina.

Lester B. Knight and Associates, Chicago, Illinois, 1984-85.
Assistant to the Executive Vice President (20 hours/week while attending the Graduate School of Business at the University of Chicago). Transportation engineering analyses, and corporate planning and marketing studies. Prepared briefing documents and presentations for the Illinois Governor's Task Force to Bring the Super-Conducting Supercollider to Illinois.

Kling Lindquist Inc., Philadelphia, Pennsylvania, Summer 1979.
Junior Engineer. Structural engineering design and drafting for new buildings and renovations.

Indian Health Service, Gallup, New Mexico, Summer 1978.
Second Lieutenant, U.S. Public Health Service, stationed on the Navaho reservation. Responsible for layout of waterlines, surveying, and design of water supply pumping station.

Municipal Engineering Department, West Orange, New Jersey, Summer 1977.
Assistant to the Municipal Engineer. General municipal engineering tasks including checking easements, performing traffic counts, drainage surveys, and pavement inspections.

CIVIC AND COMMUNITY POSITIONS

Redhouse Arts Center, Syracuse NY. November 2015 – present.
Board Member.

Chapel Hill, NC Planning Board. 1989-91.
Board Member.