
Maria Lehman, P.E., F. ASCE



Ms. Lehman is currently the Business Sector Director for **Bergmann Associates**, a private consulting engineering firm with over 330 employees in New York, Pennsylvania, Michigan and Florida, and annual revenues in excess of \$43 million. She has over 27 years of multi-disciplinary experience in economic development; quality assurance; highway, transportation, and facility planning, environmental assessment, design, management and construction monitoring; as well as emergency management. She has served as Principal-in-Charge, Project Director, Program Manager, and Engineer on over 500 projects which required everything from planning, environmental studies, preparation of plans, specifications, and estimates, and construction management; ranging in size from \$10,000 to \$85,000,000. Clients have included local, state and federal agencies, as well as commercial, industrial and non-profit clients. Her strength has been in the area of element coordination, well-developed project communications, and fast-track implementation.

Qualifications:

- BS, Civil Engineering, State University of New York at Buffalo 1981, Magna Cum Laude
- Professional Engineer, New York, 1986
- Over 27 years of diverse experience in both the Public and Private sectors
- Specialty certifications:
 - FEMA, Incident Command System I-300, 2003
 - USDOT, Managing Traffic Incidents and Roadway Emergencies NHI Course 133048, 2003
 - FEMA National Emergency Training Center, Integrated Emergency Management L930, 2004
 - Edward Deming School of Total Quality Management, 1993
 - University of California at Berkeley, Geometric Design 1990

Unique capabilities and experience:

- **Large staff leadership**, reorganization, and streamlining, in both the public and private sectors.
 - Over 27 years of **DOT project experience**, including over 5 years of operations and maintenance experience of hundreds of miles of State highways under contract with NYSDOT.
 - **Elected official** experience as member of the Orchard Park School Board and a National Director and Vice President of the American Society of Civil Engineers, a worldwide non-profit professional organization of over 140,000 members. As Vice President, represented over 32,000 members.
 - As a member of the **Erie County Readiness and Response Team** played a major command role during 11 Federal and State declared emergencies including 6 snowstorms, 1 ice storm, 2 flooding events, 1 northeast power blackout and a West Nile virus alert.
 - **Lecturer** at various Universities, Technical and Professional events on technical, professional, and economic topics.
 - Guest lecturer over the past 14 years for the Summer Engineering Institute at the State University of New York at Buffalo on the topic of “**Professionalism and Ethics in Engineering.**”
 - Public and private sector experience in **innovative finance, design-build, and public-private partnerships**, including projects in New York.
 - From 2000 to 2005 served on the **Executive Council of NITTEC**, a bi-national cross border transportation coalition dedicated to moving traffic effectively and efficiently through the Western New York and Southern Ontario region.
 - From 2000 to 2005 served on the **Planning and Coordination Committee** and as alternate to the Policy Committee of the **Greater Buffalo Regional Transportation Council**, Buffalo’s metropolitan planning
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- agency. During that time, participated in two peer reviews of Transportation in the region and MPO operations by the Federal Highway and Federal Transit Administrations
- **Large, complex project oversight** and analysis for Technical Protocol, Quality Assurance, Project Implementation and Coordination:
 - \$2 billion I-15 design-build project in Salt Lake City, Utah to improve interstate 15, access roads and mass transit in time for the Salt Lake City Olympics
 - \$220 million Big I design-build project in Albuquerque, New Mexico that reconstructed the intersections of Interstates 25 and 40
 - \$5 billion East Side Access project in New York City that will connect commuter trains from Long Island to Grand Central Terminal in Manhattan
 - \$330 million design-build Atlantic City Brigantine Tunnel in Atlantic City, New Jersey.
 - **Bi-partisan Legislative collaboration and streamlining the legislative process** to advance work and infrastructure finance with the Erie County Legislature, New York State legislature, and Congress. Provided testimony in 2002, to the House Committee on Transportation and Infrastructure on the Reauthorization of TEA-21, in 2007 on the use of Public Private Partnerships and Innovative Contracting Methods, and 2008 on Revitalizing Older Cities.
 - Commitment to STEM (Science, Math, Engineering and Technology) Education:
 - Orchard Park School Board Trustee in 2004-11, Vice President 2008-09
 - Member, Erie County Community College's President's Advisory Council
 - Member, State University of New York at Buffalo Engineering Dean's Council.

Professional Experience:

- **Vice President, Transportation Business Sector Leader, Bergmann Associates (2007-present)** – Private consulting engineering firm with over 350 employees in New York, Pennsylvania, Michigan and Florida, and annual revenues in excess of \$43 million.
- **COO, The Chazen Companies (2006-2007)** – Private consulting engineering firm with over 180 employees in the Hudson Valley, principal offices in Poughkeepsie, Troy, Newburgh and Glens Falls, NY, and annual revenues in excess of \$22 million.
- **Program Director and Northeast Regional State and Local Business Line Leader, URS Corporation (2005-06)**- the ENR #1 engineering firm over the past 6 years. Position entailed government relations, business development, technical protocol and inter-office relations for the 1,500 employees in the Northeast, and day-to-day responsibilities for 60 employees in several departments in the upstate New York offices including municipal, transportation, survey, CADD and GIS, with some responsibility over facilities staff.
- **Commissioner of Public Works for Erie County, NY (2000-05)** – Area of responsibility was defined by a \$100 million dollar a year capital program, a peak of 660 employees with a \$37 million annual operations & maintenance budget, 1,200 centerline road miles, 284 bridges, 58 facilities encompassing some 280 buildings, a \$38 million annual Utility Cooperative and the County's Weights & Measures Division. . Under her five year leadership, road and bridge scores vastly improved based on the investments made in capital improvements.

	Poor condition rating		Percent of total	
	2000	2005	2000	2005
Road scores	392 miles	220 miles	33.2%	18.6%
Bridge scores	46 bridges	32 bridges	16.6%	11.6%
Culvert scores	68 culverts	13 culverts	15.5%	3.0%

- **Corporate Director of Quality Assurance, URS Corporation (1997-2000)** - Responsible for developing and revising the Corporate QA/QC policy and program including the transition to ISO 9001 compliance, as well as monitoring the effectiveness of its implementation within all offices under the URS umbrella of over 16,500 employees in over 350 offices worldwide.
 - **Transportation Area Manager, URS Corporation (1995-97)**
 - **Project Manager, Project Engineer, DeLeuw Cather & Company (1981-95)**
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Selected Honors and Awards:

- 2004 ASCE President's Medal for accomplishments and contributions to the Society and the profession through services as Director and Vice President, and for dedicated leadership on public policy and on the issues of women and diversity in civil engineering
- National ASCE Edmund Friedman Young Engineer Award for Significant Service to the Advancement of the Profession
- Featured in the Book – "Changing Our World – True Stories of Women Engineers" 2006
- New York State Society of Professional Engineers – Erie/Niagara Chapter 2003 Engineering Manager of the Year, 2004 New York State Engineering Manager of the Year.
- 2004 American Consulting Engineers Council – New York State President's Award
- New York Governor's Award for Women - Excellence in Business 2002
- 2003 State University of New York at Buffalo, Engineering Alumna of the Year
- Buffalo Business First - 1994 "40 under Forty"
- Women Making History in Erie County, 2002 Inaugural class
- 2003 Western New York APWA Public Works Leader of the Year
- 2003 AmPol Eagle Citizen of the Year in Government

Selected Civic Involvement:

- Orchard Park Central Schools: Current Board of Education member, Various PTOs, Odyssey of the Mind and District Committees
- Boy Scouts, Pack 285: den leader, committee member
- United Way Leadership Cabinet
- American Heart Association Board
- Buffalo Niagara Partnership Transportation Committee
- Erie County Development Coordination Board
- Board Member of the Buffalo & Erie County Botanical Gardens Society

Selected Professional Involvement:

- **ASCE Involvement:** President Buffalo Section 1990-91, District 1 Director 1993-96, National Vice President, 2001-03, Member Board of Governor's, Environmental & Water Resources Institute 2004-2006, numerous national committees including:
 - National Committee on Government Affairs, 2007-2010, Chair 2008-2010
 - Policy Committee on Professional Practice 2003-05, Chair 2003-05
 - National Transportation Policy Committee 2000-02
 - National Environmental Policy Committee 1993-96, Chair 1996
 - Committee on Critical Infrastructure 2003-2006
 - Committee on Diversity and Women in Civil Engineering, Chair 2003-06, member 2007-2008
 - Committee on Pre-college outreach, Chair 2003-06, member 2007-09
 - Committee on Public Communications, 1993-2000, Chair 1997-98, National spokesperson
 - Publications 1993-97; 2000-01, Chair 1997
 - Transportation and Planning Institute Formation Committee 2000-2002
 - Committee on Sustainable Development 1997-2000, Chair 1997-2000
 - ASCE Foundation Cabinet 1994-97
 - **American Association of Engineering Societies** - Chair Task Committee on Public Awareness 1998-2000
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2009 Report Card for America's Infrastructure

The Pennsylvania House of Representatives' Transportation Committee Hearing
February 5, 2009

Maria Lehman, P.E., F.ASCE
Chair, ASCE National Committee on Government Affairs
VP & Director Transportation **Bergmann**
ASSOCIATES

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What Is the Report Card?

- Assessment of infrastructure conditions
- 1988 "Fragile Foundations" Report
- By civil engineers as stewards of nation's infrastructure

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2009 Report Card for America's Infrastructure

- Two part release
- Part one: January 28, 2009
 - Press conference
 - Webcast
- Part two: March 25, 2009
 - Full report
 - Solutions-focused
 - Press conference
 - Webcast
 - New Website
 - Fly-In

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America's Infrastructure GPA:

D

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2009 Report Card for America's Infrastructure

Aviation	D	Public Parks & Recreation	C-
Bridges	C	Rail	C-
Dams	D	Roads	D-
Drinking Water	D-	Schools	D
Energy	D+	Solid Waste	C+
Hazardous Waste	D	Transit	D
Inland Waterways	D-	Wastewater	D-
Levees	D-		

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Estimated Five Year Investment Need

\$2.2 trillion

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ASCE's Five Key Solutions

1. **Increase** federal leadership
2. **Promote** sustainability & resilience
3. **Develop** national, regional and state infrastructure plans
4. **Address** life-cycle costs
5. **Increase & improve** investment from all stakeholders

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Methodology

- Condition
- Capacity
- Operation & Maintenance
- Funding
- Future Need
- Public Safety
- Resilience

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Aviation D

- 2005 Grade: D+
- Failure to enact FAA Authorization
- 3% increase in travel expected
- Out dated air traffic control system

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Bridges C

- 2005 Grade: C
- 26% Structurally Deficient or Functionally Obsolete
- Higher percentage in urban areas
- \$17 billion needed annually to fix all deficiencies
- Currently: \$10.5 billion spent

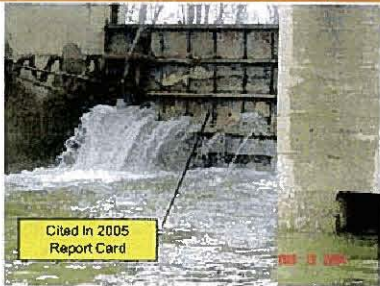
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Dams D

- 2005 Grade: D
- 85,000 dams in the U.S.
- 4,000 high hazard dams, of those, 1,819 are deficient
- Average age is 51 years
- Over last 6 years every deficient high-hazard dam repaired – two were declared deficient

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Success Story: Maumee Dam (then)

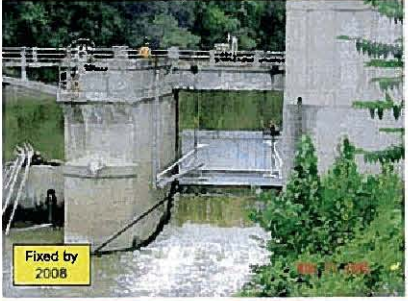


Cited In 2005 Report Card

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**Success Story:
Maumee Dam (Now)**



Fixed by
2008

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Drinking Water D-

- 2005 Grade: D-
- Leaking pipes lose an average of 7 billion gallons of treated water a day
- EPA estimates an annual investment gap of \$11 billion

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Energy D+

- 2005 Grade: D (only grade improvement)
- Demand increased 25% since 1990
- Investment need by 2030: \$1.5 trillion
- Recent increases in investment, more expected over the coming years

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Hazardous Waste D

- 2005 Grade: D
- Clean-up of Superfund sites slowed in recent years
- Cost to clean up all Superfund sites: \$200 billion
- Redeveloped Brownfields sites created an extra 200,000 jobs and \$400 million in tax revenue for localities in 2008

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Inland Waterways D-

- 2005 Grade: D-
- Tow barge can carry freight equal to 870 tractor trailers
- Average age of the nation's locks: 60 years
- Cost to repair: \$125 billion

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Levees D-

- New Category for 2008
- 100,000 miles of levees in the U.S.
- Over 85% are locally owned
- Little information available on condition
- Cost to repair: +/- \$100 billion

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Parks and Recreation C-

- 2005 Grade: C-
- Parkland per capita is decreasing
- National Parks have a \$7 billion maintenance backlog
- Benefits of parks:
 - Generate \$730 billion to the economy
 - 6.5 million jobs
 - Clean air and water
 - Property values

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Rail C-

- 2005 Grade: C-
- Freight and passenger rail share tracks in many areas
- Creates bottlenecks and slows goods movement
- \$200 billion investment through 2035 needed to meet demand

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Roads D-

- 2005 Grade: D
- Increased congestion costs \$78.2 billion to the economy, \$710 per motorist
- Current spending: \$70.3 billion
- Needed spending: \$186 billion

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Schools D

- 2005 Grade: D
- No conditions data since 1998
- Some investment increases in recent years
- Best estimate from the National Education Association: \$322 to improve conditions

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Solid Waste C+

- 2005 Grade: C+
- Recycling increased 7% since 2000
- Per capita waste generation has stayed constant
- New worry: Electronic waste

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Transit D

- 2005 Grade: D+
- Fastest growth, 25% since 1995, of any transportation category
- Only half of Americans have access
- Federal investment needs: \$21 billion a year
- Current investment: \$9.8 billion

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Wastewater D-

- 2005 Grade: D-
- Billions of gallons of untreated wastewater flows into U.S. surface waters
- EPA estimates 20 year investment need: \$390 billion

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American Recovery & Reinvestment Act

- House bill passed Jan. 28th
- Senate debating bill (as of Feb 4th)
- Create and preserve jobs
- Promote short- and long-term economic growth

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The Number\$

- Highways: \$30/\$27.5 billion
- Transit & Amtrak: \$13/\$10 billion
- Airport Improvement: \$3/\$1.3 billion
- Power Grid: \$13 billion
- Corps of Engineers: \$4.5/\$4.5 billion
- Bureau of Reclamation: \$500 million
- Clean Water SRF: \$6/\$4 billion
- Drinking Water SRF: \$2/\$2 billion

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ASCE's Principles

- Create Jobs
- Long Term Benefits
- Maintenance / Fix it First
- Accountability
- Public Health & Safety
- Economic Benefit
- Sustainable
- Environmental Benefit

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Key Legislative Issues in 2009

- Surface Transportation Authorization
- Aviation Program Authorization
- Clean Water Act
- Water Resources Development Act
- Civil Engineering Research Programs – NEHRP, Wind HRP

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For More Information

www.asce.org/reportcard

govwash@asce.org
 Government Relations:
 202-789-7850
 Communications:
 703-295-6404