



DR. PATRICIA D. GALLOWAY P.E, PMP, MRICS, CFCC

Chief Executive Officer



Dr. Patricia D. Galloway serves as an advisor to the energy and infrastructure industries regarding corporate governance, risk management, contracting/delivery, industry best practices, program/project management, standard of care, and project controls on complex megaprojects worldwide. She also serves as a consultant member of the U.S. National Science Board, appointed by President Bush with Senate confirmation in 2006 for a six-year term, and served as its Vice Chair from 2008-2010. She is a mediator and an international arbitrator and is a member of the Board of Directors of the American Arbitration Association (AAA). She is also the Chair of the AAA National Construction Dispute Resolution Committee.

Pat received her Bachelor's degree in civil engineering from Purdue University in 1978 with majors in both structures and construction management, a Masters in Business Administration (MBA), Magna cum Laude from the New York Institute of Technology in 1984, a PhD in Infrastructure Systems (Civil) Engineering from the Kochi University of Technology in Japan in 2005, and an Honorary Doctorate of Science from the South Dakota School of Mines in 2011. She is currently enrolled in the Strauss Institute's Certificate of Dispute Resolution Program at Pepperdine University. With over 32 years of experience globally, she is a Registered Professional Engineer in 14 US States, Manitoba, Canada and Australia. Dr. Galloway is a Certified Project Management Professional (PMP) by the Project Management Institute (PMI), holds a certificate of Director Education by the National Association of Corporate Directors and has served on a number of private and non-profit boards.

She has served as an advisor to electric utilities, private and public owners and contractor clients including board audit and compliance committees and has served as a member of various risk management assessment and independent review panels (IRP), including her current Chair appointment by the Legislature and Governor of the State of Washington for the Expert Review Panel on the Alaskan Way Viaduct Replacement Project and both the Governors of Washington and Oregon to the IRP for the Columbia River Crossing Project. She serves on the Eastern Washington Governor's Business Advisory Council and the Discovery Science Channel's Board of Advisors. She is a member of the NY Institute of Technology Engineering Dean's Advisory Council and has also served on the Purdue University Engineering Dean's Advisory Council. Dr. Galloway has been recognized by her peers and is an elected member to the National Academy of Construction, the Pan American Academy of Engineering, and the position of Fellow in several professional organizations.

In 2004, Pat served as the first woman President of the American Society of Civil Engineers (ASCE).

Books/Technical Papers and Presentations (Partial)

Dr. Galloway is a prolific writer and world renowned speaker having authored one book, edited one book and written the foreword to several other books including:

- Galloway, Patricia D., Nielsen, Kris R., Dignum, Jack L., *Managing Gigaprojects-From Those Who Have Been There, Done That*, ASCE Press, Reston, VA American Society of Civil Engineers

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- Galloway, Patricia D., *The 21st Century Engineer: A Proposal for Engineering Education Reform*, ASCE Press, Reston, VA American Society of Civil Engineers, 2007
- Foreword to Lunsden, Reese, *The View From Here, Optimize Your Engineering Career From the Start*, Illumina Publishing, 2011
- “Engineering in Government and Public Policy,” Section 4.5.3, UNESCO Report, Engineering: Issues, Challenges and Opportunities for Development, United Nations, UNESCO Publishing, 2010 Paris, France
- Foreword to Kusayanagi, S.; Niraula, R.; and Hirota, Y., *Principles and Practice of International Construction Project Management*, EIKO-SHA, Tokyo, Japan, 2009
- Foreword to Williams, F. Mary and Emerson Carolyn J. , *Becoming Leaders*, ASCE Press, Reston, VA, American Society of Civil Engineers, 2008
- Foreword to Hatch, Sybil E., *Changing our World: True Stories of Women Engineers*, ASCE Press, Reston, VA, American Society of Civil Engineers, 2006
- “Anticipating Problems: Project Risk Assessment and Project Risk Management,” co-authored with K. Nielsen, Chapter 6, *Collaboration Management, New Project and Partnering Techniques*, edited by H. Schaughnessy, John Wiley & Sons 1994

She has also been featured in many international publications including:

- “Risk by the Numbers,” *PM Network*, Project Management Institute, March 2012, Volume 26 Number 3
- “STEM to the Rescue?” *PE, The Magazine for Professional Engineers*, published by NSPE, March, 2012
- *PM Network Magazine*, Project Management Institute, March 2011 Vol. 25, No. 3 “Too Big to Handle? Megaprojects and meeting the triple constraints”
- ASCE Industry Leaders Council, Monthly “Insights – Perspectives from Civil Engineering Industry Leaders,” podcast, January 31, 2011
- “2011 – Seven Who Blaze New Pathways,” 21 Leaders for the 21st Century, Women’s Enews.org, January 4, 2011
- “Top of Their Game,” NYIT Magazine, Summer, 2010
- Curiosity Project, Discovery Channel, Screening in 2011
- Interview with Patricia D. Galloway, *ADR Perspectives*, February 2010
- *Federal Technology Watch*, “Interview with National Science Board Vice Chair,” January 26, 2009
- “Building a Better Role Model,” Continental Airline's *In-Flight Magazine*, November 2005 Issue
- Bad Idea. You'll Flunk Out. *Time Magazine*, Science Section, First Person: Pat Galloway, Authored by Deirdre Van Dyk, March 7, 2005 Issue
- America's Infrastructure, Live Media Radio and Television appearances in over 25 cities across the United States, October 2004
- *Engineering Marvels-Seven Modern Engineering Wonders of the World*, Co-host to ABC / Discovery Channel Television Series, April, 2004

She has authored over 120 papers, 30 peer-reviewed journal articles and nearly 200 public speaking (including over 45 keynote addresses), engagements

Awards and Honors (Partial)

- Honorary Doctorate of Science from the South Dakota School of Mines and Technology, December 2011
- Women's Enews.org, 21 Leaders for 21st Century Honoree for, "Architect of Spaces for Women in Engineering and Science," May, 2011
- Pan American Academy of Engineering, 2006
- Key Women in Energy-Global Awards, Energy Leaders Council, 2005
- National Academy of Construction, 2005
- Professional Leadership Award, National Professional Women in Construction, 1995
- Purdue University Distinguished Engineering Alumni Award, 1991
- Mercer County Engineer of the Year Award, 1990
- Somerset County's Outstanding Women in Business and Industry, October 1987
- Engineering News Record, "Top Women in Construction," October 1986

Board Memberships

For-Profit Boards

- Pegasus Global Holdings, Inc., 2000-Present
- Bergman & Associates, 2012-Present
- Unionville Vineyards (Partner), 1986-2008
- The Nielsen-Wurster Group, Inc., 1984-2008
- Nielsen-Wurster Asia-Pacific Pty. Ltd., (Australia) 2001-2008
- Unionville Aviation, 1987-2005
- Nielsen-Wurster/ESB (Electricity Supply Board of Ireland) 1986-1989

Non-Profit Boards (partial)

- American Arbitration Association, 2009-Present
- Pacific Science Center Board of Trustees, 2012-Present
- Central Washington University Foundation Board of Trustees, 2012-Present
- Life Support (Kittitas County, WA Philanthropic Organization) 2010-Present
- Patricia Galloway and Kris Nielsen Foundation
- National Science Board, (Presidential appointment and Senate Confirmed) 2006-May, 2012; Presently consultant to NSB
 - Vice Chair, 2008-2010
 - Executive Committee, 2010-2011
 - Chair, 60th Anniversary Committee, 2008-2010
 - Sustainable Energy Task Force Committee, 2007-2009
 - Audit & Oversight Committee, 2006-present
 - Polar Research Committee, 2006-present
 - Committee on Strategy & Budget, 2006-present
 - International Task Force Committee, 2006-2008
- Pan American Academy of Engineering, 2006-Present
- Project Management Institute, College of Scheduling, 2003-2006
- American Society of Civil Engineers, 1992 - 1995, 2002-2005
- American Society of Civil Engineers Foundation, 2002-2005

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- Civil Engineering Research Foundation (CERF), 2002-2004
- Purdue University Engineering Alumni Board, 1991-2001

Advisory Boards / Committees (partial)

- Chair, AAA National Construction Dispute Resolution Committee, 2011-Present (member since 2005)
- Chair, Independent Expert Review Panel for Alaska Way Viaduct/Tunnel Project, 2011-Present
- Independent Review Panel for Columbia River Crossing Project, 2010-Present
- Discovery Channel, Science Channel Board of Advisors, 2009 – 2012
- Eastern Washington Governor’s Business Advisory Council, 2007-Present
- New York Institute of Technology Engineering Dean’s Board of Advisors-2010-Present
- Construction Industry Institute Advisory Board, 2006-2010
- American Society of Civil Engineers Industry Leadership Council, 2008-2010
- University of Nebraska Charles W. Durham School of Architectural Engineering and Construction Academic Review Team, 2009
- Purdue University Engineering Dean’s Advisory Council, 2004-2007
- Engineers for a Sustainable World, Member of Advisory Board, 2003-2007
- National Science Foundation Engineering Directorate Advisory Committee, 2004-2006
- National Science Foundation International Directorate Advisory Committee, 2006
- Civil Engineering Research Foundation (CERF), Member of Corporate Advisory Board, 2001-2005
- Extraordinary Women in Engineering Project, 2004-2009

Engineering/STEM Education

Invited and Keynote Presentations (partial)

- Commencement Speaker, December 2011 graduating class, South Dakota School of Mines, Rapid City, South Dakota, December 17, 2011
- Keynote Address, “Why it’s Cool to be an Engineer,” Morgan Middle School, Annual Career day, Ellensburg, WA, February 18, 2011
- Keynote Address: “My Personal STEM Story,” Open Forum to Engineering School, North Dakota State University, January 31, 2011
- Keynote Address, “Teachers – The Key to Empowering our Nation’s Engineering Resources,” Project Lead The Way (PLTW), Counselor Conference, Seattle University, Seattle, WA, December 13, 2010
- Keynote Address, “The Critical Need to Change the Face of Science and Engineering,” Discovery Channel STEM Discovery Conference, Silver Springs, MD, August 5, 2010
- Keynote Dinner Speaker, “The Critical Need to Change the Face of Science and Engineering,” National Science Foundation Advance Conference, Charleston, West Virginia, October 21, 2008
- Keynote address, “Mentoring for the 21st Century,” annual Hoover Lecturer, Iowa State University, Ames, Iowa, October 1, 2008
- Keynote Address, “Engineering Education Reform,” International Symposium on Social Management Systems, Three Gorges Dam, China, March 9, 2007

Publications

- “STEM to the Rescue?” *PE, The Magazine for Professional Engineers*, published by NSPE, March, 2012, contributed to by Patricia D. Galloway
- “*Connecting Students to STEM: Social Networking Strategies*,” International Society for Technology in Education (ISTE), 2011, Authored by Camille Cole, includes excerpts from Patricia D. Galloway
- Forward to “*The View From Here: Optimizing Your Engineering Career From the Start*,” Reece Lumsden, Illumina Publishing, 2011
- “New Trends in Engineering Management Education,” ASEE Conference, Pittsburgh PA, June 23, 2008
- Galloway, Patricia D., “*The 21st Century Engineer: A Proposal for Engineering Education Reform*”, Reston: American Society of Civil Engineers, 2007
- “Bachelor's Plus, The Rationale for 'Raising the Bar' in Engineering Education,” *Licensure Exchange*, Publication of National Council of Examiners for Engineering and Surveying, Clemson, South Carolina, March 2004

Conference Presentations / Teaching / Instruction (partial)

- Panel Member, “*Making the Case for STEM Education, Part III: A perspective from Outside the K-12 Educational System*,” Washington State LASER’s STEM Education Leadership Institute, June 26, 2012
- Panel Moderator, “*The Future of Science and Engineering Research and Education as the National Science Foundation Celebrates Its 60th Anniversary*,” Advancing Science Serving Society (AAAS) Annual Conference “Bridging Science and Society,” San Diego, Ca, February 20, 2010
- Panel Moderator “*The Creative Science Studio (CS squared)*,” Advancing Science Serving Society (AAAS) Annual Conference “Bridging Science and Society,” San Diego, Ca, February 19, 2010
- “New Trends in Engineering Management Education,” ASEE Conference, Pittsburgh PA, June 23, 2008
- Panel Member, "Engineering Education Reform-Solutions for Professional Survival," American Association of Engineering Societies, Chicago, Illinois, June 19 - 20, 2006
- Engineering Educational Reform, Panelist, Curriculum Reform Leader's Conference, Purdue University, West Lafayette, Indiana, August 30, 2005