

June 2017

VITA

GERALD EDWARD GALLOWAY, JR.

**CURRENT POSITION: Glenn L. Martin Institute Professor of Engineering
Research Professor**

**Faculty Fellow of the Texas A&M University Institute for Advanced Study
Visiting Professor Texas A&M Galveston Campus.**

University of Maryland
1173 Glenn L. Martin Hall
College Park, MD 220472
(301-405-1341)

EDUCATION

Senior Fellow, International Executive Forum
School of Management and Strategic Studies,
Western Behavioral Science Institute, La Jolla, CA, 1987 -1991
Ph.D. University of North Carolina (Chapel Hill), 1979 (Geography- -Water Resources)
MPA Pennsylvania State University (Capitol Campus), 1974
(Public Administration)
MMAS US Army Command and General Staff College, 1968/1974
(Management and Military History)
MSE Princeton University, 1962 (Civil Engineering)
BS US Military Academy, 1957

PROFESSIONAL BACKGROUND:

Glenn L. Martin Institute Professor of Engineering, University of Maryland

2004-

- Teaching in water resources management, water and risk policy, resilience, climate impacts on water resources, and natural disaster management
- Research
 - Co-PI. Texas A&M -Maryland Study, Urban Flooding in the US (current)
 - Co-Chair, National Academies Study, Measuring Community Resilience (current)
 - Member, USAID-NHI Study Team, Climate Change Impacts in Mekong Basin (current)
 - Chair National Research Council Study, Logistics Force Multiplying Technologies
 - Chair, National Research Council Study. Levees and the NFIP
 - PI, UMD-FEMA Review of National Dam Safety Program
 - PI, FEMA Study - Adequacy of 1% Annual Chance Flood Standard
 - Chair, FEMA, Interagency Levee Policy Review Committee
 - Chair, State of California Panel to Review Deep Flooding in California Central Valley
 - Member, The Nature Conservancy China Yangtze River Program Team
 - Member, WWF - China GIWP, Research in Flood Risk Management

Chair. International Technical Scientific Committee (ITSC) Flooding in Florence and Tuscany, Italy (2014-2017)

Member, International Panel of Experts, Coastal Adaptation Study, Singapore

(2014 –2016)

Member, Louisiana Governor's Advisory Commission on Coastal Protection Restoration and Conservation (State Senate Confirmed) 2010- present

Member, Smart Coast Council, State of Maryland (Governor's Appointee) 2014-present

Member, US National Academies Resilient America Roundtable 2010-present

Vice-Chair, CNA Military Advisory Board (Member since 2011) 2013-present

Chair, Advisory Group, National Academies Center for Engineering Ethics and Society 2014- present

Energy and Climate Partnership of the Americas Fellow, US Department of State (part-time, Secretary of State Appointment) 2010 - 2013

- Conducted dialogue on water and climate issues with scientists and government officials in Latin America
Visits to governments in Mexico, Jamaica, Peru, Chile, Bolivia

Maas-White Scholar (2007-2008) and Visiting Scholar (2004-2009, 2014-2016), US Army Corps of Engineers Institute for Water Resources (part-time appointment - IPA)

- Conducted research in national water policy, flood risk management, and strategic planning. Represented USACE in international and national fora on lessons learned from Hurricane Katrina and new directions to be followed in disaster management.

Principal, Water Resources Professionals, LLC. Water Resources and Disaster and Climate Adaptation Management Consulting 2004-

Vice President, Geospatial Strategies, ES3 Sector, Titan Corporation 2004-2005

- Developed and coordinated sector strategies in support of geospatial programs of Department of Homeland Security and Department of Defense activities.

Vice President, Enterprise Engineering Group, ES3 Sector, Titan Corporation 2003-2004

- Led Titan team efforts to assist Department of Homeland Security establishment of Geospatial Program Management Office and Geospatial Program.
- As program manager designee, led team of Titan and four top-25 engineering firms and 18 other subcontractors in developing and presenting to Federal Emergency Management Agency proposal for establishing 800-person program management organization to implement national \$1B multi hazard digital map modernization program. (Team selected as one of three finalists from 11 major firm competitors)

Secretary, US Section, International Joint Commission (IJC) 1998-2003
(Senior Executive Service Equivalent Position)

- Served as the senior advisor to the three President-appointed US Commissioners in preventing and resolving disputes between the US and Canada under the Boundary Waters Treaty of 1909 and in serving as independent advisor to the two governments on transboundary air and water quality issues. Served as the principal administrator of the US Section Office of the Commission.
- Assisted the Commissioners in guiding the activities of the in-house staff and boards of control, investigative boards, and task forces in carrying out regulation of boundary waters, apportionment of river flows, air and water pollution monitoring, and special investigations.

- Developed and maintained close working relationships with federal and state agencies, Congressional staff members, and non-governmental organizations dealing with US –Canada issues.

Member, American Heritage Rivers Initiative Committee (Presidential appointment) 1997-1999

- In response to Presidential Executive Order 13061, established and executed procedures for determining list of rivers to be recommended as American Heritage Rivers, met with candidate river proponents and prepared final recommendations to President. Coordinated with White House Staff and Vice President.

Dean of the Faculty and Academic Programs, Industrial College of the Armed Forces, National Defense University (ICAF) (Senior Executive Service Equivalent Position) 1995-1998

- Guided the academic program for 252 highly select senior military, Department of Defense civilian personnel, and 18 international fellows in an executive level graduate program leading to the degree of Master of Science in National Resource Strategy. ICAF prepares selected military officers and civilians for senior leadership and staff positions in the Defense Department by conducting graduate studies and associated research dealing with the resource components of national power and the development of a national security strategy.
- Recruited, hired, develop and supervised a high quality full-time faculty of 82 including distinguished fellows representing the Departments of Commerce, Labor, Energy, State, and Agriculture, and the Federal Emergency Management Agency. Taught courses in national power, logistics management, environmental security, and ethics. Conducted research and policy development in national and international water resources development.

Dean of the Academic Board (Chief Academic Officer), USMA. 1990-1995.

- Successfully guided academic program for 4100 undergraduates and 30 graduate students in one of the most highly selective universities in the United States. Developed strategic plans for 21st Century curriculum. Dramatically improved student performance.
- Taught courses in civil and environmental engineering, geography, computer science, and systems engineering.
- Recruited, hired, developed and supervised a high quality full-time faculty of 489 and a support staff of 150 including 45 professionals. Programmed, developed and executed annual budget of over \$60 million, supervising 13 academic departments, library, 10 research centers and two operational centers (teaching excellence; enhanced performance).
- Represented institution to national audience through speeches, seminars, media appearances; over past four years, speak to more than 200 groups in 38 states. Maintained close contacts with Board of Visitors (Members of Congress and Presidential appointed civilian members), alumni association, donors, parents, senior Department of Defense officials, and numerous visiting dignitaries including heads of state.

Executive Director, Interagency Floodplain Management Review Committee, Executive Office of the President, Washington, DC. Dec 1993-Jul 1994; part time Aug 1994-May 1995).

- Developed nationally recognized report analyzing causes of 1993 Mississippi River Flood and proposing major federal and state floodplain management program and policy changes to the Administration.
- Testified before Senate and House Committees.
- Continued to represent Administration with Governors, interest groups, the public, and local and national media.

Professor and Head, Department of Geography and Environmental Engineering, USMA, 1989-1990.

- Led forty person faculty, sixteen administrative personnel, Artificial Intelligence Center, and Mapping and Geographic Systems Lab. Founding head for program in environmental engineering.

Member, Mississippi River Commission, 1988 - 1995. (Presidential appointment, Senate confirmed position).

- Provided oversight and approval of activities of the Corps of Engineers (including flood control, navigation and environmental programs) in the Lower Mississippi Valley.
- Provided program continuity and liaison with state and local governments and the citizens of the Lower Valley.

Chief of Staff and Deputy Post Commander (Chief Administrative Officer), US Military Academy, 1987-1988.

- Managed financial, logistics, personnel and facilities operations of the USMA and the West Point and Stewart Posts and provision of support to academic and student components of the Military Academy (\$260 million annual budget).
- Served as Chief of Staff to Superintendent (President).
- "City Manager" of West Point, responsible for day-to-day operation and all support for the USMA and West Point community (10,000).

Professor, USMA, and Deputy Department Head, Department of Geography and Computer Science, 1977-1989.

- Led a 40-50 faculty member, sixteen administrative personnel academic department, including research centers in Computer Graphics and in Artificial Intelligence. Directed curriculum in computer science, geography, and environmental engineering.
- Taught water resources management, land use planning, physical, and cultural geography, computer programming, and environmental engineering. Conducted research in battlefield automation, water resources policy and management, digital terrain analysis, and military geography.
- Conducted summer assistance visits to military units in US and overseas (Europe, Saudi Arabia, Korea)

Special Assistant to Commander-in-Chief, US Army Europe (USAREUR), Heidelberg, Germany, 1985-1986. Developed wartime automation systems architecture for USAREUR echelons above Corps.

Research in Water Resources (Ph.D. studies) University of North Carolina at Chapel Hill, 1977-1979.

District Engineer, Vicksburg District Corps of Engineers, 1974-1977. Managed water resources development in middle sector of lower Mississippi Valley (2400 employees; annual budget \$150 million - 1977 price level). Received commendation from environmental organizations and Administration for forward-looking approaches to engineering activities.

Student/Researcher, US Army War College and Pennsylvania State University (Capitol Campus), 1973-1974. Research in water resources planning.

Special Assistant, Office of the Chief of Engineers, Washington, DC, 1973. Researched worldwide base development and presented plan to Department of Army Staff principals.

Assistant Engineer, US Army Vietnam/US Military Assistance Command Vietnam and Commander, Engineers, Military Region I, 1972-1973. During North Vietnamese 1972 Easter offensive, directed all US engineer activity in northern quarter (MRI) of South Vietnam; Assistant Staff Engineer for theater of operations.

Assistant Director, Test and Evaluation Directorate, Office, Assistant Chief of Staff for Force Development (Operations Research Analyst, 1971-1972. Reviewed Army field testing program and material acquisition in electronic intelligence systems.

Assistant Surveillance, Target Acquisition and Night Observation (STANO) Systems Manager, Office of the Chief of Staff of the Army, 1969-1971. Associate responsibility for management of Army STANO program.

S3 45th Engineer Group, and Asst G3 1st Air Cav Division 1966-1967. Operations Officer for largest Engineer Group in Vietnam (4 battalions plus) building base camps and port facilities; Division G3 lead at TAC CP on forward unit security, liaison to brigades on evolving missions and unit mission swaps. South Vietnam

1957-1966. Various engineering staff and leadership assignments in Continental United States, Southeast Asia and Germany including construction of academic facilities, dormitories and library at US Military Academy.

COURSES TAUGHT

At Maryland

ENCE 688j	Contemporary Water Resources Management (also ENPP 620; PUAJ 798j)
ENCE 688M	Mitigating Natural Hazards
HNR 219t	Surviving Natural Disasters
ENCE 189I	Managing Natural Disasters: Hurricanes, Floods, Earthquakes, Tornadoes, Tsunamis, and Fires (University I Course- <i>Issues-Inspiration-Imagination</i>)

At ICAF

5109	The Environment and National Security (Co-teach)
5068	Ethics for Public Officials
5100	Military Strategy
5235	Strategic Logistics
5250	Elements of National Power
5300	Implications of the Revolution in Military Affairs on Military Strategy
5400	Joint Military Ethics

At USMA

CE/EV 485	Environmental Engineering Design
CE/EV 481	Water Resources Management
CE/EV 385B	Air and Water Quality Engineering
CS 105	Introduction to Computers and Pascal Programming
EV 203	Terrain Analysis (Earth Science/Remote Sensing/Cartography)
EV 391A	Principles of Land Use Planning
EV 365	Cultural and Political Geography
EV 410	Geographic Information Systems
EV 482	Military Geography
EV 489	Advanced Individual Study in Geography
EF 105	Introduction to Computers and FORTRAN Programming
SE 381	Engineering Economics

At UNC Chapel Hill

Geo 10	Physical Geography
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GUEST LECTURER

Stanford University
Moscow State University

Ohio State University
Iowa State University

University of Massachusetts
University of Mississippi
Mississippi State University
University of Iowa
Princeton University
Rice University
Baylor University
Lafayette College
University of Technology, Kingston Jamaica
National Defense University
University of Florida
University of North Carolina
Johns Hopkins University

University of North Florida
Pennsylvania State University
Harvard University
University of Virginia

Escuela Militar de Ingenierí (Bolivia)
Catholic University of Maule (Chile)
Pontifical University of Santiago. In Bolivia
Universidad Major De San Andres (Bolivia)
Catholic University of America
Naval Post-Graduate School
Texas A&M - Galveston

MILITARY SERVICE

Commissioned 2d Lieutenant, Corps of Engineers, US Army, 1957. Promoted to Brigadier General, July 1990. Retired 1 October 1995

GOVERNANCE ACTIVITIES AT UNIVERSITY OF MARYLAND

- Chair, Ad-hoc Task Group, University Environmental Programs (2009)
- Member, University Climate Action Planning Committee (2008-2009)
- Member, Clark School Strategic Planning Committee (2006-2008)

GOVERNANCE ACTIVITIES AT NATIONAL DEFENSE UNIVERSITY

- Member, Information Management Planning Board, (1996-1998)
- Chair, Curriculum Committee, ICAF (1995-1998)
- Member, National Defense University Press Review Committee (1996-98)
- Member, Accreditation Steering Committee (Chair, Curriculum and Program Subcommittee, 1995-1997)

SERVICE AT USMA

- Officer in Charge, Army Football, 1984-85, 1986-1987
- Academic Officer in Charge Army Football, 1982-1984)
- USMA Member, Patriot League Policy Committee (Chair, Gender Equity Task Force, 1993-1994)
- Chair, Athletic Committee (1990-1995)
- Co-chair, Intercollegiate and Club Athletics Review (1992-1993)

GOVERNANCE ACTIVITIES AT USMA

Committees 1990-1995

- Member, Academic Board
- Chair, Faculty Council
- Chair, Installation Planning Board
- Member, Policy Board

Other Committee Assignments

Director, Candidate Admissions Review (1993-1994);); Director, USMA Quality of Life Review (1992-1993); Chair, NCAA Pilot Certification Study (1991-1992); Faculty Athletic Representative to NCAA (1990-1992); Strategic Planner, Office of the Dean (1981-1985); Member, Governance Committee (1979-1981); Chair, USMA Library Committee (1980-1984); Member, USMA Admissions Committee (1979-1987); Chair, Subcommittee on Fairness in Admissions (1983-1984); Chair, Ex-Cadet Admissions Subcommittee (1983-1985, 1986-1987);

Member, USMA Program and Budget Advisory Committee (PBAC) (1981-1985) (Chair, 1987-1988); Chair, Committee to select Professor and Deputy Head, Department of History (1989); Professor and Head, Department of Systems Engineering (1988-1989); Librarian, USMA (1984-1984); various committees to select Permanent Associate Professors; Member, Committee to select Professor and Head, Department of Mechanics ; Professor and Head, Department of Engineering ; various committees to select Permanent Associate Professors; Chair, Information Management Steering Committee (1987-1988); Chair, Installation Morale Welfare Fund Council (1987-1988); Chair, Committee on Parking (1987-1989); Member, Academy Policy Board (1987-1988); Member, Installation Planning Board (1987-1989); Member, West Point Fund Advisory Committee (1987-1989); Chair, Committee on Grading (1986)

MILITARY EDUCATION

US Army War College, 1973-1974; US Army Command and General Staff College, 1967-1968; US Army Engineer School, Advanced and Basic Engineering Courses; Airborne, Ranger

PROFESSIONAL HONORS:

Elected to National Academy of Engineering - 2004
Elected to National Academy of Public Administration – 2008
Elected to National Academy of Construction - 2014

PROFESSIONAL SERVICE:

Member, Governor's Advisory Commission on Coastal Protection, Restoration and Conservation , Louisiana (2008-)

Member, State of North Carolina advisory committees on sea level rise and integrated hazard management studies (2009-)

Consultant on Flood Risk Management, Asia Development Bank (2012 -)

Member, Board of Consultants, Miami Conservancy District (Ohio) (2010-)

Consultant, Plan Hídrico Integral de Tabasco, UNAM, Mexico City (2011)

Consultant, The Nature Conservancy Yangtze River Program (2007 -)

Member, WWF-China Ministry of Water Resources Flood Risk Management Research Team (2009-2012)

Board Member, Natural Heritage Institute (2006-) (Chairman of the Board 2010-)

General Chair, National Water Policy Dialogues, AWRA; (2002, 2005, 2007, 2008)

Co-Chair Policy Experts Group, World Water Assessment Program, UNESCO (2007 -2010)

National Academy of Public Administration

- Member, Committee on Joint Land Use at Military Installations
- Member, Committee to Examine Formation of National Climate Service

National Academies

- Member, US-Iran-Finland Science Exchange
- Member, US-Ukraine Science Exchange
- Presenter/Researcher, Meeting of presidents of G+National Academies (2012)
- Advisory Group, On Line Ethics Center (OEC)

National Research Council

- (2006-) Report Reviewer and Coordinator
- (2009 - 2012) Member, Disaster Roundtable,
- (2004-2007, 2008-2011) Member, Water Science and Technology Board,
- (2011- 2013) Chair, Committee on Levees and National Flood Insurance Program
- (2010-2012) Member, Committee on Increasing National Resilience to Hazards and Disasters
- (2007-2009) Member, Committee on FEMA Flood Maps
- (2004-2007) Member, Committee on River Science in the USGS
- (2005-2007) Member, Committee to Review the Joint Subcommittee on Ocean Science and Technology's Research Priorities Plan
- (2003-2005) Member, Committee to Review of the Corps of Engineers Restructured Feasibility Study of the Upper Mississippi River—Illinois Waterway System: Phase II
- (2002-2003) Member, Committee for Assessment of the Corps Methods of Analysis and Peer Review Procedures: *Panel on Methods and Techniques of Project*

- (2000-2002). Member, Committee to Examine Scientific Basis for Adaptive Management of The Missouri River.
- (1997-1999). Chair, Committee to Perform a Technology Assessment Focused on Logistics Support Requirements for Future Army Combat Systems
- (1981-1982). Member, Committee on Levee Design.

Executive Office of the President – Consultant, National Flood Policy/Basin Management Policy (1994 - 2001)

America's WETLAND (2003). Moderator, Facilitator and Reporter, Technical Summit on Louisiana Coastal Wetlands

Director, Hudson River Foundation for Science and Technology, (1997 - 2006)

Munk Center, University of Toronto (2003), Consultant, Managing Groundwater Resources in the Great Lakes.

World Bank (1994). Reviewer, Bangladesh Flood Action Program.

The Discovery Channel. Anatomy of a Disaster Project (1996-1997)

The Learning Channel. Flood Projects (1996)

NBC News. *Dateline* (1996-1998)

The History Channel. Cold Weather Warfare (2000)

Organization of American States.

- Latin America Flood Workshop, Brazil (1995);
- Water Dialog, Brazil (2001, 2004)

Iowa State University, Consultant, Project on Landscape Design (1996)

Ad Hoc Work Group, Tennessee Valley Authority and Natural Hazards Research and Applications Center.

Consultant on effectiveness of floodplain management. (1982-83;1989)

US Water Resources Council (1980-1982). Consultant on water project development and floodplain management.

US Army. Chair, Department of the Army Study Advisory Group, Water Supply Planning and Conservation at Military Installations (1989- 1992).

Proposal Reviewer - National Science Foundation.

Article Reviews - *Annals, Professional Geographer, Water Resources Bulletin, Environmental Management*

CONSULTING

Michael Baker Corporation (for FEMA)

URS Corporation (for FEMA)

Battelle Memorial Institute (for USACE)

RAND Corporation

PBS&J (for FEMA)

CDM Inc (for USACE)

Marstel-Day

Abt (for USACE)

Atkins (for FEMA)

Zantech (for FEMA)

HONORS AND AWARDS

Civilian:

- 2016 - Lifetime Achievement Award, ASCE/EWRI
- 2015 - Gold DeFleury Award, US Army Engineer Regiment
- 2015 - Sustained Achievement Award, Renewable Natural Resources Foundation
- 2015 - Mid-Atlantic Legacy Award, *Engineering News Record*
- 2013 –Icko Iben Award, AWRA
- 2011 - President's Medal, American Society of Civil Engineers
- 2010 - Fellow, American Water Resources Association
- 2010 - Distinguished Career Award, Water Resources, Water Resources Specialty Group, Association of American Geographers
- 2009 - Warren Hall Medal, Universities Council on Water Resources
- 2008 - President's Outstanding Service Award, American Water Resources Association
- 2008 - OPAL Lifetime Achievement Award, ASCE
- 2008 - Norm Augustine Award, American Association of Engineering Societies,
- 2004 - Golden Eagle Award, Academy of Fellows, Society of American Military Engineers,

2004 - Julian Hinds Award, Environmental and Water Resources Institute of ASCE,
 2004 - John Wesley Powell Award, US Geological Survey
 2004 - Honorary Diplomat, American Academy of Water Resource Engineers
 2003 - Secretary of State's Career Achievement Award,
 2002 - Presidents' Award, ASCE
 2001 - Government Civil Engineer of the Year, ASCE
 1998 - Goddard-White Award, Association of State Floodplain Managers
 1998 - Department of the Army Superior Civilian Service Award
 1995 - Silver DeFleury Medal, Army Engineer Association
 1991 - Bliss Medal, Society of American Military Engineers (1991)
 1980 - Member, Phi Kappa Phi, National Honor Society

Military: Distinguished Service Medal
 Legion of Merit (four oak leaf clusters)
 Bronze Star Medal
 Meritorious Service Medal (one oak leaf cluster)
 Joint Service Commendation Medal
 Air Medal (with oak leaf cluster)
 Army Commendation Medal (with two oak leaf clusters)

ORGANIZATIONS

Distinguished Member, American Society of Civil Engineers

- Member, Task Committee on Flood Safety Policies and Practices (2012-present)
- Vice-chair, Task Committee on Academic Prerequisites for Practice at the Professional Level (2001-2012)
- Member, Task Committee on Implementing Competency Strategy (2009-2010)
- Member, Task Committee on Implementing Competency Strategy 2 (2010-2012)
- Member, Strategic Planning Committee (2006-2012)
- Member, Committee on First Professional Degree, 1999-2001
- Member, Task Group, "Federal Policies in Water Resources Planning," 1981-1985
- Member, Environmental Impact Assessment Research Council, 1989-1990 (Chair, 1990)
- Chair, Post-audit Committee 1989;
- Chair, Committee on Engineering Responsibility , 1990-1993
- Member, Committee on Standards of Practice, 1993 – 1997
- Member, Committee on Hydrologic Disasters, (1997-1999)

Member, American Geographical Society (1990-1999)

Councilor 1990 - 1996

Member, American Water Resources Association

- President, 2007
- Member of Board (2006-2008)
- Vice-Chair, Education Committee, 1989-1990
- General Chair, National Water Policy Dialoguer, 2005 Dialogue
- General Chair, National Water Policy Dialoguer, 2002 Dialogue

Member, Board of Directors, Franklin Delano Roosevelt Institute, Hyde Park, NY, 1994-1995

Member, Association of American Geographers

- Co-founder, Water Resources Specialty Group, 1979
- Chair, 1980-1982, Water Resources Specialty Group
- Program Co-chair, 1985 Annual Meeting, Middle States Division
- President, 1985-1986, Middle States Division

Universities Council on Water Resources

- Institutional Representative, 1984- 1992
- Board of Directors, 1987- 1991
- President, 1989-1990

Member, Hudson River Environmental Society

Board of Directors, 1984-1992

Member, Permanent International Association of Navigation Congresses

Reporter General (in absentia), Compatibility Between Nature Preservation and Waterways Section, 28th Congress, Seville, 1994

Member, International Water Resources Association

- Member, Board of Direction, 2003 -

Fellow, Society of American Military Engineers

- Chair, Continuing Professional Competency Committee, 2003-2005 (Member Board of Direction)
- Regional Vice President, North Atlantic, 1992-1994
- Post President, Vicksburg, MS 1975-76
- Vice-Chair, Education Committee, 1996 - 1999

LICENSE: Professional Engineer, State of New York, 1966

**PUBLICATIONS/WRITINGS – Books, Articles, Reports, Chapters, Testimony
Author or Co-author**

BOOKS, ARTICLES, CHAPTERS, INDEPENDENT REPORTS

Paul Sayers, Gerry Galloway, Edmund Penning-Rowsell, Li Yuanyuan, Shen Fuxin, Chen Yiwei, Wen Kang, Tom Le Quesne, Lei Wang & Yuhui Guan *Strategic flood management: ten 'golden rules' to guide a sound approach. International Journal of River Basin Management.* Volume 13, Issue 2, April 2015, pages 137-151

"The Ostrich Syndrome: What We Don't Know Likely Will Hurt Us." *Water Resources Impact.* Volume 16, Number 1. January 2014

P. Sayers, Y. Li, G. Galloway, E. Penning-Rowsell, F. Shen, K. Wen, Y. Chen, and T. LeQuesne. 2013. *Flood Risk Management: A Strategic Approach.* Paris, UNESCO

Opperman Jeffrey J., Galloway Gerald E., and Duvail Stephanie (2013) The Multiple Benefits of River–Floodplain Connectivity for People and Biodiversity. In: Levin S.A. (ed.) *Encyclopedia of Biodiversity*, second edition, Volume 7, pp. 144-160. Waltham, MA: Academic Press.

Susan L. Cutter , Joseph A. Ahearn , Bernard Amadei , Patrick Crawford , Elizabeth A. Eide , Gerald E. Galloway , Michael F. Goodchild , Howard C. Kunreuther , Meredith Li-Vollmer , Monica Schoch-Spana , Susan C. Scrimshaw , Ellis M. Stanley , Gene Whitney & Mary Lou Zoback (2013): Disaster Resilience: A National Imperative, *Environment: Science and Policy for Sustainable Development*, 55:2, 25-29

Paul B Sayers, Gerald Galloway, Jim Hall. "Robust decision making under uncertainty - towards adaptive and resilient flood risk management infrastructure. *Flood Risk.* Paul Sayers, ed. London: Thomas Telford Limited. 2012

Galloway, Gerald and Lewis E Link. A White Paper: The Need for a Unified National Program for Floodplain Management in the 21st Century. 2012. Prepared for the Federal Interagency Floodplain Management Task Force. Bethesda: Abt Associates

"A Plea for a Coordinated National Water Policy." *The Bridge.* National Academy of Engineering. Volume 41, Number 4 - Winter 2011

"If Stationarity Is Dead, What Do We Do Now?" *Journal of the American Water Resources Association.* Volume 47, Issue 3, pages 563–570, June 2011 (DOI: 10.1111/j.1752-1688.2011.00550.x)

"Goals, Institutions, and Governance: the US Experience." In *Flood Risk Science and Management.* Gareth Pender and Hazel Faulkner, eds. Oxford: Wiley – Blackwell. 2011

"The Great Flood of 1993: Did We Learn Any Lessons? A": *A Watershed Year: Anatomy of the Iowa Floods of 2008*. CF Mutel, ed. Iowa City: University of Iowa Press. 2010

"Making the Transition: Moving Water Resources Planning and Management into the 21st Century." *The Evolution of Water Resource Planning and Decision Making*. Clifford Russell and Duane Baumann, eds. Northampton: Edward Elgar Publishing. 2009

Jeffrey J. Opperman, Gerald E. Galloway, Joseph Fargione, Jeffrey F. Mount, Brian D. Richter, and Silvia Secchi. "Sustainable Floodplains Through Large-Scale Reconnection to Rivers." *Science* 11 December 2009 326: 1487-1488 [DOI: 10.1126/science.1178256]

Galloway, G.E, D. F. Boesch and R. R. Twilley. "Restoring and Protecting Coastal Louisiana. Issues in Science and Technology". XXV:2: Winter 2009, 29-38. 2009.

Tinker, Tim L and G.E. Galloway. "How do you effectively communicate flood risks?" *Journal of Business Continuity and Emergency Planning*, 3:3. 2009

Martin W. Doyle, Emily H. Stanley, David G. Havlick, Mark J. Kaiser, George Steinbach, William L. Graf, Gerald E. Galloway, J. Adam Riggsbee "Aging Infrastructure and Ecosystem Restoration." *Science*. Vol. 319. no. 5861, pp. 286-297. 18 January 2008.

"Flood risk management in the United States and the impact of Hurricane Katrina." *International Journal of River Basin Management*, 4:6 303-306. 2008.

Galloway, GE and Ari M. Michelsen. 2008. "New Directions in Water Policy: WRDA 2007" *Southwest Hydrology*. May/June 2008.

C. Mark Dunning and Gerald E. Galloway; "The Second National Water Policy Dialogue: Muddling Through to Better Water Policy" *Journal Of Contemporary Water Research And Education Issue No. 134: July 2006*

'Who is Watching our Infrastructure,' *Southwest Hydrology*, Mar/Apr 2006, Volume 5 No. 2

"Restoring Coastal Louisiana: Doing Comprehensive Planning without National Water Policy." *The Bridge*. National Academy of Engineering. Volume 36, Number 1 - Spring 2006

"Introduction to Studies in Military Geography and Geology". *Studies in Military Geography and Geology*. Dordrecht, The Netherlands, Kluwer Academic Publishers. 2004.

Gerald Galloway and Ralph Pentland. Securing The Future of Groundwater Resources in the Great Lakes Basin. *Ground Water*. September 2005 - Vol. 43 Issue 5 , 737-743

"Geospatial Support for Joint Forces Installation Management". *Proceedings, ESRI Users Conference*. San Diego: ESRI , August 2004

With Richard A. Engberg. "In Search of National Water Policy? The AWRA Dialogues". *Water Resources Impact*, Vol 7, Nr 1, January 2005

"Corps of Engineers Responses to the Changing National Approach to Floodplain Management Since the 1993 Midwest Flood." *Journal of Contemporary Water Research and Education*. Issue No. 130, March 2005

"Perspectives on a National Water Policy," *Water Resources Update*, Issue 126, November 2003

"Report of the Coastal Louisiana Technical Summit." *Restoring Coastal Louisiana: Enhancing the Role of Engineering and Science in the Restoration Program*. ASCE: Reston: 2004

"Continuing Professional Development: SAME & Lifelong Learning." *SAME News*. Vol 5, Nr 26. April 2004

"Emergency Preparedness and Response – Lessons Learned from 9/11." In *The Geographical Dimensions of Terrorism*. Edited by Susan L. Cutter, Douglas B. Richardson and Thomas J. Wilbanks. Routledge. New York 2003

"Julian Hinds Water Resources Development Award Lecture." *Journal of Water Resources Planning and Management*. Vol 131, Nr 4 251-252. July/August 2005

"Joining the Ranks of Professionals: Getting Your PE License." *SAME's News*. Society of American Military Engineers. December 2002

"Perspectives on a National Water Policy," *Water Resources Update*, Issue 126, November 2003

"Managing Groundwater Resources in the Great Lakes Basin: Securing Our Future: Draft Vision and Principles." Working Paper #2, Munk Centre for International Studies, University of Toronto. August 2003 Co-author with Ralph Pentland.

"Three Ages of River Management along the Mississippi: Engineering and Hydrological Aspects." In *New Approaches To River Management*. Edited by AJM Smits, PH Nienhuis & RSEW Leuven. Backhuys Publishers, Leiden, 2000.

Battle Settings: The Impact of Weather and Terrain on Military Operations. Co-author with Harold Winters (lead) and William Reynolds. Johns Hopkins Press, Spring 1998

"Continuing Education in SAME- A Coming Reality." Co-author with Tri Thompson. *Military Engineer*. December 1997

"River Basin Management in the 21st Century: Blending Development with Environmental Sustainability," *Water International*, Summer 1997.

"Learning from the 1993 Mississippi River Flood: Impacts, Management and Research Needed," *Hydrometeorology Impacts and the Management of Extreme Floods*. Report of US-Italy Research Workshop, Perugia, Italy, November 1995, publication pending 1997

"US Floodplain Policy Pursues Higher Ground." *Forum*, Fall 1996.

"The Mississippi Basin Flood of 1993," *Reduction of Vulnerability to Floods in River Basins*. Final Report of the Inter-American Seminar-Workshop, Foz do Iguacu, Brazil. Washington: Organization of American States. 1996

"New Directions in Floodplain Management," *Water Resources Bulletin*, June 1995 .

"Sharing the Challenge: Water Resources Management into the 21st Century," *Water Resources Update*, Winter 1995.

"The Floodplain Management Challenge," *Proceedings of the Association of State Floodplain Managers Annual Meeting, 1994*. Madison WI, ASFPM.

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