

Howard M. Neukrug, P.E., BCEE, Hon.D.WRE
Professor of the Water Practice, University of Pennsylvania
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Personal Profile:

Water utility chief executive, professional engineer, researcher, professor, mentor, and leader in the US and global water sectors with over 40 years of experience at the intersection of anthropogenic and natural water systems and their impacts on public health and environment, social equity and justice, finance and innovation, science and policy, water quality and treatment.

Academic Appointments and Affiliations at the University of Pennsylvania:

Professor of Practice , Dept of Earth and Environmental Science	(10/2016- present)
Founder and Executive Director , The Water Center at Penn	(07/2018- present)
Faculty Fellow , Penn Institute of Urban Research	(10/2016- present)
Faculty Senate Committee , Institutional Response to the Climate Emergency (CIRCE)	(07/2020- present)
Faculty Member , PWH Climate Action Research Group	(09/2019- present)
Lecturer , University of Pennsylvania	(09/2008-09/2016)
Advisory Board , Professional Programs in Earth and Environmental Science	(01/2011-01/2017)
Senior Fellow , Kleinman Center for Energy Policy	(01/2016-01/2017)

Education:

B.S. Civil and Urban Engineering (1978) University of Pennsylvania

Continuing Education:

Harvard School of Public Health, Risk Analysis in Public Health

Drexel University, Coursework towards a MS in environmental engineering

Rutgers University, Operation and Maintenance of Water Treatment Plants

The Management Exchange, Privatization of Water and Wastewater Projects

Licenses / Certifications:

Professional Engineer, National Society of Professional Engineers Board Certified Environmental Engineer (PA)

Board Certified Environmental Engineer, American Academy of Environmental Engineers

Honorary Diplomat, Water Resources Engineering, American Academy of Water Resources Engineering

Professional Experience (Non-Academic):

Corporate Monitor, Pennsylvania State Attorney General and Pa Dept of Environmental Protection (2021)

Assessing the policies and practices of PWSA's ability to provide safe drinking water.

Principal, CASE Environmental (2016 to present)

Provide consulting services to cities, utilities, foundations, and private companies on water system operations and management, optimization trends and innovations in the global water industry, civil engineering, CWA / SDWA compliance, urban planning, sustainability, organizational development, public: private partnerships and strategic planning.

Senior Advisor, Global Water Leaders Group (2016 to present)

Founding Chair and organizer of the Leading Water Utilities of the World Network, a global organization of the world's 50 most successful and innovative water and wastewater executives.

Commissioner and CEO, Philadelphia Water (2011 to 2016)

Responsible for all aspects of utility operations, compliance, engineering, financing, budgeting, capital and strategic planning, customer service, human resources, and legal and policy decisions for this \$1 Billion integrated water / wastewater / stormwater system serving 2.3 million people in the Philadelphia region.

Deputy Commissioner, Planning and Environmental Services, Philadelphia Water (2010)

Responsible for all aspects of capital / operational / strategic planning, watershed and environmental services and compliance, and laboratory operations.

Founder and Director, Office of Watersheds, Philadelphia Water (1999 to 2009)

Created, organized, and directed the \$2.5 Billion “Green City, Clean Waters” program, which revolutionized American cities’ approach to land and water management for sustainability and resiliency.

Director, Office of Planning and Technical Services, Philadelphia Water (1984 to 1999)

Director of strategic planning and engineering services for asset management, public: private partnerships, renewable energy, legislative and regulatory affairs, water quality research, regionalism, marketing, and system optimization.

Water Treatment Research Engineer and Assistant Laboratory Director, Philadelphia Water (1978 to 1984)

Led a USEPA funded multi-year study of identifying trace organics in Philadelphia drinking water and the effectiveness of ozone and activated carbon technologies in reducing THMs, VOCs, and taste and odor-producing compounds.

Selected Other Professional Experience (Non-Academic):

Advisor, US EPA National Drinking Water Advisory Council (2013 to 2019)

Provide advice, information, and recommendations related to drinking water activities, policies, and regulations.

Founder and Vice-Chair, Senior Fellow, US Water Alliance (2009 to 2016)

Provide strategic guidance, serve as an official spokesperson, support development initiatives, and new programs in support of “One Water” and “The Value of Water” strategies.

Chair, American Water Works Association’s Water Utility Council (WUC) (2001 to 2004)

Culminated over 20 years of volunteerism within the US water industry professional organizations as the chair of this council of water utility managers. Served as the US drinking water industry’s leading spokesperson on issues of federal drinking water regulation and legislation, utility best management practices, and water quality and health issues.

Chair, American Water Work Association’s Technical Advisory Group (TAG) (1995 to 2001)

A network of technical experts that oversee projects, studies, analyses, reports and presentations in support of the water industry’s legislative and regulatory agenda. Topics include: SDWA amendments; Disinfection By-products and disinfection; Distribution Systems; Lead and Copper Rule; Utility management and finance; and source water protection.

Chair, American Water Work Association’s Lead Rule Task Force, (1985 to 1995)

Oversaw the water industry’s development of a technical, policy and legal response to the USEPA development of the Lead and Copper Rule.

Other Current Professional Activities:

Chair, Advisory Committee on Climate Change, Delaware River Basin Commission

Chair, Leading Utilities of the World Network

Board Member, Fairmount Water Works Restoration Fund

Member, Water Innovator’s Group, Spring Point Partners

Other Past Professional Experience:

Chair, Global Water Leaders of the World Network (since 2016)
Founder and Executive of the US Water Alliance (2009-2016)
Commissioner, Philadelphia Parks and Recreation Commission (2011-2016)
National Advisory Council on Environmental Policy and Technology (2006-2009)
Water Resources Advisory Committee for the Pennsylvania State Water Plan
Water Research Foundation, Board of Trustees (2005-2007)
Delaware Estuary Program Executive Committee (2011-2016)
American Water Works Association Board of Directors (2001-2004)
Delaware Valley Green Building Council, Board Director (2007-2010)
Founder and Executive Committee of the Schuylkill Action Network (2006-2016)
Delaware River Basin Commission Water Management Advisory Committee
US EPA Effective Utility Management Task Force Chair
Federal Advisory Committee on Wet Weather Flow
Value of Water Coalition, Steering Committee

Selected Honors / Awards:

Founders Award for Leadership (US Water Alliance)
Founders Award (Schuylkill Action Network)
National Environmental Achievement Distinguished Service Award (NACWA)
Samuel Baxter Leadership Award (Water Resources Association of the Delaware Valley)
Leadership in GSI Award (Sustainable Business Network of Greater Philadelphia)
Urban Forest Leadership Award (The National Arbor Day Foundation)
National Planning Award (American Planning Association)
Community Leader of the Year (Architecture Construction Engineering (ACE) Mentor Program of America)
Environmental Communications Award (American Academy of Environmental Engineers)
Public Official Award (Water Environment Federation)
Distinguished Achievement Award (Pennsylvania Horticultural Society)
River Champion (American Rivers Foundation)
Exemplary Source Water Protection Award (American Water Works Association)
Leadership in Sustainability (Delaware Valley Green Building Council)
Commitment to Watershed Protection Award (Pennsylvania Heritage Conservancy Partnership)
Leader in Sustainable Design and Development (Pennsylvania Resources Council)
Recognition for Outstanding Leadership (White House Cooperative Conservation)
Award for Watershed Management (Water Resources Association of the Delaware Valley)
Source Water Protection Award (USEPA Region III)
Lifetime Honors Award (American Water Works Association)

Selected National Board Roles:

US EPA National Drinking Water Advisory Council (2013 – 2019)
Philadelphia Parks and Recreation Commissioner (2011- 2016)
US Water Alliance, co-Founder and Vice Chair (2008 - 2016)
US EPA National Advisory Council on Environmental Policy and Technology (2006 – 2009)
US EPA Effective Utility Management Task Force Chair

Federal Advisory Committee on Wet Weather Flow
Water Resources Advisory Committee for the Pennsylvania State Water Plan
Delaware River Basin Commission Water Management Advisory Committee
Delaware Estuary Program Executive Committee
National Association of Clean Water Agencies, Board Director (2011-2016)
Value of Water Coalition, Steering Committee, (2015-2016)
Schuylkill Action Network, Executive Committee, (2006 to 2016)
Tacony-Frankford Watershed Partnership, Founder (2003-2006)
Water Research Foundation, Board of Trustees (2005-2007)
American Water Works Association (AWWA), Board of Directors, 2001-2004
AWWA Water Utility Council, Chair, 2001-2004
AWWA Regulatory/Technical Action Council, Chair, 1995-2001
Water Environment Federation, Energy Conservation and Climate Change, Chair, 2007-2009
Delaware Valley Green Building Council, Board Director, 2007-2010
The Fund for the Fairmount Water Works, Board Member

Selected Publications:

Neukrug, HM. *wH2O Journal of Gender and Water*, Editorial Board Chair, semi-annual peer-reviewed publication serving as a global hub on gender equity in the US and the global water sector.

Neukrug, HM. *Water affordability and social tariffs in the United States*, In: The Global Value of Water, The Global Water Leaders Group, Tom Scotney ed., Global Water Intelligence, 2020.

Neukrug, HM and Lind, D. *Transforming New Jersey's Water Infrastructure: A call to Action and Innovation*, In: Our Water Transformed, Jersey Water Works, 14-31, December 2017.

Neukrug, HM. *US Municipal Water Tariffs Must Double - And Fast!* In: The Global Value of Water, The Global Water Leaders Group, Tom Scotney ed., Global Water Intelligence, 2017.

Neukrug, HM, Philadelphia – *The Green City, Clean Waters Programme*. In: Growing Awareness-How Green Consciousness Can Change Perceptions and Places, Brian Evans and Sue Evans ed., RIAS, Essentials of Physiology, HG Wells ed., Plenum Press, 114-130, 2016.

Neukrug, HM and Barron, L. *Managing Stormwater and its Influence on Building a Sustainable, Resilient City*, In: Knowledge for Better Cities, Shi Nan ed., International Society of City and Regional Planners (ISOCARP), 84-96, 2016.

Neukrug, HM and subcommittee. *Encouraging Regional Solutions to Sustaining Water Sector Utilities*, National Advisory Council for Environmental Policy and Technology, USEPA, January 2009.

Neukrug, HM. *Delivery methods and design for Drinking Water Systems in 2050*. Journal American Water Works Association - 92. 54-55. 10.1002/j.1551-8833.2000.tb08805.x., Feb 2000.

Neukrug, HM, et al. *Removing Organics from Philadelphia Drinking Water by Combined Ozonation and Adsorption*, USEPA 600/52-83-048, August 1983.

Congressional Testimony:

Benefits of Green Infrastructure on the Nation's Water Quality, Economy and Communities

US House of Representatives Testimony, Subcommittee on Water Resources and Environment, Transportation and Infrastructure Committee, September 2010.

Vibrant Communities, Healthy Waters and Job Opportunities

Congressional Field Hearing, Philadelphia, PA. May 2009.

Regulatory and Legislative Approaches for Addressing Urban Stormwater Management

US House of Representatives Testimony, Subcommittee on Water Resources and Environment, Transportation and Infrastructure Committee, March 2009.

Legislating Revisions to the USEPA Lead and Copper Rule

US House of Representatives Testimony, Government Reform Committee, May 2004.

Water Investment Act of 2002

US Senate Testimony, Fisheries, Wildlife and Water Subcommittee of the Committee on Environment and Public Works, February 2002.

Drinking Water Needs and Infrastructure

US House of Representatives Testimony, Subcommittee on Environment and Hazardous Materials of the Committee on Energy and Commerce, March 2001.

Implementation of the Safe Drinking Water Act Amendments of 1986

US House of Representatives Testimony, Health and Environment Subcommittee, Commerce Committee, September 2000.

Pennsylvania House of Representatives Testimony:

Clean Water Issues: Regionalism and Sustainability

Pennsylvania House of Representatives, House Majority Policy Committee, July 2010.

Marcellus Shale and Drinking Water Protection

Pennsylvania House of Representatives, Environmental Resources and Energy Committee, March 2009.

Keynote Presentations:

The Value of Water

Phi Beta Kappa Alumni Association, Philadelphia, Pennsylvania. March 2020.

Establishing an Equitable and Affordable Income-based Water Tariff for the Economically Disadvantaged

Water for All Conference, Charlotte, North Carolina. February 2020.

Water Research at the University of Pennsylvania

UPenn MES/MSAG Graduate Research Conference. University of Pennsylvania. March 2019.

Beyond Tunnel Vision – The Value of Green Infrastructure for Pittsburgh

Pittsburgh United. Pittsburgh, Pennsylvania. Nov 2018.

The Tree: Water Nexus of Life

California Urban Forest Council. San Rafael, California. August 2017.

Transforming Urban Water Management

The Chesapeake Tri-State Water Association Conference. Ocean City, Maryland. August 2017.

Green Cities, Clean Waters

Mid-America Regional Council. Kansas City, Kansas. Jan 2017.

Integrated Water Resource Planning

Association of Clean Water Administrators Annual Conference. Philadelphia, PA. October 2015.

Creating a Peer City Information Exchange

Urban Waters Xchange Conference. Philadelphia, PA Sept 2015.

Water and Public Health

University of Pennsylvania Center for Public Health Initiatives. December 2010

Invited Presentations:

"Innovative Approaches to Water Resources Management in Adapting to Climate Change"

U.S. Department of State Bureau of Oceans and International Environmental and Scientific Affairs and the Bureau of Global Public Affairs. March 2021.

Nature-based solutions to flooding, and the need for resilient urban water systems

National Leaders Forum, the Anthropocene Alliance. January 2021.

Green Stormwater Infrastructure Challenges

Sustainable Business Network's Green Stormwater Infrastructure Partners. January 2021.

Climate Change and the Global Water Crises

UPenn Class of '71 Reunion Committee. January 2021.

Careers in the Global Water Industry

UPenn AWWA student chapter. November 2020.

Can you swim in the Delaware River... or Eat the Fish?

Faculty Live Lecture, Global Discovery Series, University of Pennsylvania: September 2020.

If You Had No Water, You Would Be Innovative Too: Lessons from Global Water Leaders

The World Today, Perry World House, University of Pennsylvania. Feb 2020.

Is Flint a Signal of Things to Come? Our Nation's Water Infrastructure

Knowledge by the Slice, University of Pennsylvania. September 2019.

Policy, Technology, and Science for Global Challenges

REACT@Penn, University of Pennsylvania. January 2019.

Urban Water Systems

Urban Design Resilience Conference, University of Pennsylvania. January 2019.

The Water Center at Penn

Meeting of the SAS Board of Overseers. March 2019.

The Water Sector Decision Makers: Working with and Influencing Winning Partnerships

The River Network, Webinar. May 2018.

The Water Center at Penn

The Philadelphia Annual Water Summit hosted by the Pennsylvania Horticultural Society, Philadelphia, Pa. March 2018.

A Dialogue on Small Community Water Systems

US Chamber of Commerce. Washington, DC. March 2019.

Lessons in Global Governance of Water Systems

Session moderator, National Association of Clean Water Agencies (NACWA). Boston, Mass. July 2018.

Water, Water, Everywhere

The Penn Science Café. University of Pennsylvania. April 2018.

Global Water Challenges

Engineers without Borders, Philadelphia Student Chapter. Philadelphia, PA. March 2018.

America's Water Initiatives: Problems and Solutions

Columbia University Water Center. New York City, NY. March 2018.

Innovative Urban Water Management: Navigating the Legal, Regulatory and Policy Hurdles

American Water Works Association Annual Conference. Philadelphia, Pa. June 2017.

The Nature Conservancy Global Cities Program Retreat

Retreat leader, Providence, RI. May 2017.

Water Challenges in the US

Perry World House / Penn IUR Conference. University of Pennsylvania. March 2017.

Rethinking Philadelphia

Design on the Delaware Conference. Philadelphia, PA. Nov 2016.

Water Infrastructure Management Issues

Governing Magazine Leadership Forum. Harrisburg, PA. October 2015.

Innovations in Civil Engineering

American Society of Civil Engineers Annual Conference, NYC, NY. October 2015.

Innovations in Water Policy Needed to Achieve Sustainable and Resilient Urban Water Systems

The Aspen Institute. Aspen, Colorado. May 21, 2014.

Natural System Infrastructure in Historically Underserved Neighborhoods

NYC Metropolitan Waterfront Alliance Conference. New York City, NY. December 2010.

Re-thinking National Water Policy

American Water Resources Association Conference. Philadelphia, PA. November 2010.

Building a Sustainable Region – Water and Regionalism in Southeastern Pennsylvania

Urban Land Institute, Philadelphia PA. February 2010.

Protection of Drinking and Public Health

US EPA National Drinking Water Advisory Council Meeting. Washington, D.C. November 2009.

Environmental Issues and Zoning Reform

Philadelphia Zoning Code Commission. Philadelphia, Pa. January 2008.

Our Rivers are the Fate of our City

PennPraxis Central Delaware Waterfront Best Practices Public Forum. Seaport Museum, Philadelphia, PA. February 2007.

Source Water Protection and Watershed Management Solutions

National Association of Clean Water Agencies, Seattle, WA. July 2006.

Parks as Environmental Infrastructure

US Urban Parks and Recreation Summit, National Parks and Recreation Association, Chicago, IL. May 2006.

A Sustainable Approach to CSO Controls

American Society of Civil Engineers, Philadelphia, PA. December 2005.

Vacant Land Reclamation and Stormwater Management

White House Conference on Cooperative Conservation, St. Louis, MO. August 2005.

Watersheds and USEPA Program Integration

USEPA National Water Director's Meeting, Washington, DC. January 2003.

Re-Engineering Philadelphia's Urban Watersheds: Clean Water, Green City

University of Pennsylvania, Institute for Environmental Studies. February 2001.

Future Environmental Focus for the Water / Wastewater Industries

Water Environment Federation. Anaheim, California. October 2000.

Alternative Approach to Future Drinking Water Regulations

American Water Works Association Conference. Denver, Colorado. June 2000.

US Drinking Water Supplies and Public Health

National Association of Physicians for the Environment. Chicago, Illinois. May 1997.

Philadelphia's Urban Watersheds

USEPA Tri-Regional Administrators Conference. Mobile, Alabama. August 1999.

Technical Implementation of the Lead and Copper Rule

USEPA, Washington, DC. November 1992.

Balancing Infrastructure Costs with Water Quality Demands

Infrastructure Research Workshop, Washington, DC. November 1988.

Energy Management Initiatives

Citizen Coalition for Energy Efficiency, Philadelphia, PA. May 1986.

Privatization: The Municipal Viewpoint

Management Exchange Privatization Seminar. May 1985.

Conference Host / Moderator / Speaker:

Lessons Learned from Houston's Recent Water Crisis

A conversation with Yvonne Forrest, Deputy Director - Houston Water, April 2021

Climate Change and Water Management

Moderator, Partnership for the Delaware Estuary Science Summit, March 2021

The Future of Cape Town Water

A conversation with Mike Webster, Executive Director - Water & Waste, City of Cape Town, South Africa. January 2021.

Climate change issues affecting the Delaware River

Chair and moderator, DRBC Advisory Committee on Climate Change. December 2020.

Chief Executive Workshop on Global Innovative Water Technologies

Webinar Workshop organizer, host and moderator. June, September, and December 2020.

Advancing Climate Resilience and Water Equity in Uncertain Times

A conversation with Jalonne White Newsome - Kresge Foundation. October 2020.

From New York to Philadelphia: Expert Perspectives on Climate Change Impacts to Water Systems in the Delaware River Basin.

Webinar Moderator Sept 2020.

Plastics, PFAS and other Emerging Water Contaminants

Webinar organizer and host. A conversation with Pam Lazos, attorney, USEPA. University of Pennsylvania. July 2020.

Coastal Resilience Conference

Conference organizer, sponsor and host. University of Pennsylvania. January 2020.

The Future of Water

Session organizer and moderator. Amsterdam International Water Week. Amsterdam, The Netherlands. November 2019.

Water Innovation Trajectories

Session organizer and moderator. American Water Summit. Houston, Texas. November 2019.

Next Generation Future Water Leaders

Session organizer and moderator. American Water Summit. Houston, Texas. November 2019.

Chief Executive Workshop on Global Innovative Water Technologies

Workshop organizer, host and moderator. Los Angeles, California. June 2019.

Conference on Environmental Justice and Health Disparities in the US

Co-sponsor and session moderator. UPenn Environmental Justice Symposium. University of Pennsylvania, Oct 2019.

Is your Tap Water Safe to Drink?

Sponsor and keynote. Inaugural Water Exchange Speaker Series. The Water Center, University of Pennsylvania, Oct 2019.

Planning, Design and Research on Flood Control and Environmental Protection: A Conversation with the Changjiang (China) Institute of Survey

Speaker. University of Pennsylvania. May 2019.

Urban Water Innovation Network (UWIN) Conference

Host and speaker: NSF (UWIN) Research Workshop with researchers and students from Penn and other Universities (Princeton, CSU, Drexel, ASU) and practitioners. University of Pennsylvania. April 2019.

The Next Generation of Water Leaders

Session organizer and moderator. Global Water Summit, London, England. April 2019.

Water and Sanitary Health (WASH) Challenges in the US

Conference co-sponsor and speaker, “Global WASH Challenges” with Global Water Alliance and IGEL at Wharton. University of Pennsylvania. March 2019.

The World’s Water Crisis: Equity, Equality, Security: A Conversation with Scott Moore

Session moderator. Perry World House, University of Pennsylvania. March 2019.

Green Infrastructure Design and Policy

Host to delegation from South Korea, University of Pennsylvania. Feb 2019.

Our Water Transformed

Moderator. Jersey Water Works Conference. Newark, New Jersey. December 2018.

The American Water Summit

Conference organizer / host. Philadelphia Pennsylvania. October 2018.

The Next Generation Water Leaders

Session organizer and moderator. American Water Summit. Philadelphia Pennsylvania. October 2018.

Water as Leverage: Lessons from Rotterdam

Conference co-host and speaker. University of Pennsylvania. October 2018.

Water Issues and Solutions in Singapore

Host/speaker. University of Pennsylvania Singh Center. August 2018.

Leading Water Utilities of the World: Challenges and Innovations

Session organizer and moderator. Singapore International Water Week. Singapore. July 2018.

Leading Water Utilities of the World: Challenges and Innovations

Session organizer and moderator. Global Water Summit. Paris, France. June 2018.

What does the future hold for the Pittsburgh Water System?

Round-Table discussion leader. Global Water Summit. Paris, France. June 2018

A National Discussion on Water Affordability and Equity

Conference organizer, sponsor, speaker, moderator. University of Pennsylvania. May 2018.

Triggering Water Tech Innovation

Session chair and speaker. WaterVent Conference. Cira Center, Philadelphia PA. May 2018.

The Mid-Atlantic Coastal Resilience Conference

Host, organizer, speaker. University of Pennsylvania. April 2018.

Water Challenges & Innovations in Global Cities

Session host and moderator. Amsterdam Water Week. October 2017.

IGEL Conference on Smart Cities

Opening remarks. Huntsman Hall, University of Pennsylvania. September 2017.

Pooling Resources: A Workshop for the Innovative Water Utility Leader

Convener and co-facilitator. New Orleans, LA. June 2017.

Smart Water Leaders Forum

Invited participant, American Water Works Association. Philadelphia, PA. June 2017.

Global Water Alliance Annual Conference

Opening remarks. Huntsman Hall, University of Pennsylvania. April 2017.

Water Challenges and Innovations in Global Cities

Session organizer and moderator. Global Water Summit. Madrid, Spain. April 2017.

Procrastinations on Trump and Water

Panelist. WHYY, Philadelphia, PA. March 2017.

Urban Water Sustainability Leadership Conference

Conference leader, organizer, presenter. Philadelphia, PA. December 2010

Selected other Publications and Editorials:

“Coronavirus Stimulus Packages Should Help Green Our Water Infrastructure”

With Cynthia Koehler. Philadelphia Inquirer. May 4, 2020.

“A Home Without Running Water Is No Home at All”

OMNIA. April 2020.

“The Role of Water in Preparing our Cities for a Better Future”

WHYY. February 2017. [<https://whyy.org/articles/essay-the-role-of-water-in-preparing-our-cities-for-a-better-future/>]

“Imagine a Day Without Water”

With Governor Ed Rendell. Philadelphia Inquirer. October 2015.

The Water Exchange

The Water Center at Penn's quarterly newsletter, explores why and how water matters from a wide variety of perspectives to help readers gain new insights and consider new ways of thinking when approaching their own water challenges.

“Accelerating Transformational Change in Pittsburgh’s Three Rivers”

June 2019. Sponsored by Heinz Endowments.

Thinking Outside the Bill: A Utility Manager’s Guide to Assisting Low-Income Water Customers

American Water Works Association, Project Advisor, November 2004.

Selected Media Highlights:

“From Philadelphia Water CEO to the Founder of UPenn Water Center, Creating the Future of Urban Water Systems with Howard Neukrug”

Aquasight’s 21st Century Water Podcast. April 2021.

[\[https://podcasts.apple.com/st/podcast/21st-century-water/id1479193878\]](https://podcasts.apple.com/st/podcast/21st-century-water/id1479193878)

“Diving Deep into Urban Water Challenges”

Power of Penn, by Carter Johns. February 2021.

[\[https://powerofpenn.upenn.edu/diving-deep-into-urban-water-challenges/\]](https://powerofpenn.upenn.edu/diving-deep-into-urban-water-challenges/)

“27 Miles to Go: Getting the Last Piece of the Delaware Swimmable and Fishable”

Delaware Currents, by Meg McGuire. January 2021.

[\[https://delawarecurrents.org/2021/01/08/27-miles-to-go-getting-the-last-piece-of-the-delaware-swimmable-and-fishable/\]](https://delawarecurrents.org/2021/01/08/27-miles-to-go-getting-the-last-piece-of-the-delaware-swimmable-and-fishable/)

“DRBC’s Climate Change Committee Weighs Risks in the Near- and Far Term”

Delaware Currents, by Meg McGuire. December 2020.

[\[https://delawarecurrents.org/2020/12/18/drbc-climate-change-committee-weighs-risks-in-the-near-and-far-term/\]](https://delawarecurrents.org/2020/12/18/drbc-climate-change-committee-weighs-risks-in-the-near-and-far-term/)

“A Federal Rollback of Wetland and Stream Protections Could Affect Philadelphia”

Grid, by Claire Marie Porter. October 2020.

[\[https://www.gridphilly.com/blog-home/2020/9/30/rollback-of-wetland-protections-could-affect-philadelphia\]](https://www.gridphilly.com/blog-home/2020/9/30/rollback-of-wetland-protections-could-affect-philadelphia)

“Howard Neukrug on Applying Research to Water Sustainability”

Waterloop Podcast. August 2020.

[\[https://www.youtube.com/watch?v=Gnh1q2FtBV\]](https://www.youtube.com/watch?v=Gnh1q2FtBV)

“Revealed: Millions of Americans Can’t Afford Water As Bills Rise 80% in a Decade”

The Guardian, by Nina Lakhani. June 2020.

[\[https://www.theguardian.com/us-news/2020/jun/23/millions-of-americans-cant-afford-water-bills-rise\]](https://www.theguardian.com/us-news/2020/jun/23/millions-of-americans-cant-afford-water-bills-rise)

“Americans are told to wash hands to fight coronavirus. But some don’t trust the tap”

Francis Stead Sellers, The Washington Post. May 2020.

“Howard Neukrug Fundamentally Changed Philadelphia’s Relationship with Nature, And Other Cities are Watching with Great Interest”

Pascal Mittermaier, Global Managing Director for Cities at The Nature Conservancy. April 2020.

[\[https://waterbucket.ca/rm/2020/04/05/howard-neukrug-fundamentally-changed-philadelphias-relationship-with-nature-and-other-cities-are-watching-with-great-interest-wrote-pascal-mittermaier-in-an-interview/\]](https://waterbucket.ca/rm/2020/04/05/howard-neukrug-fundamentally-changed-philadelphias-relationship-with-nature-and-other-cities-are-watching-with-great-interest-wrote-pascal-mittermaier-in-an-interview/)

“A New Advisory Panel on Climate Change Starts Work at DRBC”

PlanPhilly, by Helen Chinn August 2020.

[\[https://why.org/articles/a-new-advisory-panel-on-climate-change-starts-work-at-drbc/\]](https://why.org/articles/a-new-advisory-panel-on-climate-change-starts-work-at-drbc/)

“Why does it take so long to upgrade Philly’s water infrastructure? Here’s an explanation”

WHYY, by Jake Blumgart. July 2018.

[\[https://why.org/segments/why-does-it-take-so-long-to-upgrade-phillys-water-infrastructure-heres-an-explanation/\]](https://why.org/segments/why-does-it-take-so-long-to-upgrade-phillys-water-infrastructure-heres-an-explanation/)

“The Future of Water: Professor of Practice Howard Neukrug is bringing together real-world experience and Penn research to revolutionize the water industry”

OMNIA, by Susan Ahlborn. June 2017.

[<https://omnia.sas.upenn.edu/story/future-water>]

“Water, Water Everywhere: Arts and Sciences faculty study how this key resource is changing—from warmer oceans to once-thriving waterways now inhospitable to life—and what that means for the world.”

OMNIA, by M. Berger. Oct. 2017.

[<https://omnia.sas.upenn.edu/story/water-water-everywhere>]

“The Water Center at Penn to Explore Systemic Issues”

UPenn News. Oct 2017.

[<https://www.sas.upenn.edu/news/>]

“Penn Arts and Sciences Appoints Biden, Neukrug as Professors Of Practice”

OMNIA. May 2017.

[<https://omnia.sas.upenn.edu/story/penn-arts-and-sciences-appoints-biden-neukrug-professors-practice>]

“Eden’s Lost & Found: How Ordinary Citizens Are Restoring Our Great American Cities”

PBS Documentary, by Harry Wiland, Producer. May 2006.

Founder / Co-Creator of the following Organizations:

The Water Center at Penn

The Leading Utilities of the World Network

The US Water Alliance

Philadelphia Water’s Office of Watersheds

AWWA Water Utility Council

AWWA Technical Advisory Group

AWRA Philadelphia Chapter

Tookany-Tacony Frankford Watershed Partnership

Schuylkill Action Network

Courses taught at University of Pennsylvania (2008 to present):

Green Cities, Clean Waters

The Role of Water in Urban Sustainability and Resiliency

Topics in a Changing Global Water Industry

Charting a New Course for the US Water Industry

The Stockholm World Water Conference

Sustainable Cities