January 2024

RICHARD G. LUTHY, Ph.D., P.E., D.E.E., Member NAE, Fellow WEF
Professor, Dept. of Civil & Environmental Engineering, Stanford University

Degrees

University of California, Berkeley	Civil Engineering (Environmental Engineering)	Ph.D. 1976
University of California, Berkeley	Civil Engineering (Environmental Engineering)	M.S. 1974
University of Hawai'i	Ocean Engineering	M.S.1969
University of California, Berkeley	Chemical Engineering	B.S. 1967
Clarkson University	Environmental Engineering	Honorary Sc.D. 2005

Appointments

Stanford University

Silas H. Palmer Professor, Department of Civil and Environmental Engineering	2000-present
Woods Institute for the Environment	2004-present
Chair, Department of Civil and Environmental Engineering	2003-2009

Carnegie Mellon University

Thomas Lord Professor, Environmental Engineering	1996-1999
Department Head, Civil & Environmental Engineering	1989-1996
Asst/Assoc/Professor, Department of Civil & Environmental Engineering	1975-1999
Associate Dean/Acting Dean, Carnegie Institute of Technology	1986-1988

Professional Engineer (Pennsylvania, License PE-24546E, expires 9/30/2025)

Recent papers (out of 300)

Pritchard, J. C., Cho, Y. M., Hawkins, K. M., Spahr, S., Higgins, C. P., & Luthy, R. G. (2023). Predicting PFAS and Hydrophilic Trace Organic Contaminant Transport in Black Carbon-Amended Engineered Media Filters for Improved Stormwater Runoff Treatment. *Environmental Science & Technology*.

Mutzner, L., Zhang, K., Luthy, R. G., Arp, H. P. H., & Spahr, S. (2023). Urban stormwater capture for water supply: look out for persistent, mobile and toxic substances. *Environmental Science: Water Research & Technology.*

Galdi, S. M., Szczuka, A., Shin, C., Mitch, W. A., & Luthy, R. G. (2022). Dissolved Methane Recovery and Trace Contaminant Fate Following Mainstream Anaerobic Treatment of Municipal Wastewater. *ACS ES&T Engineering*, 3(1), 121-130.

Teixidó, M., Charbonnet, J. A., LeFevre, G. H., Luthy, R. G., & Sedlak, D. L. (2022). Use of pilot-scale geomedia-amended biofiltration system for removal of polar trace organic and inorganic contaminants from stormwater runoff. *Water Research*, 226, 119246.

Pritchard, J. C., Hawkins, K. M., Cho, Y. M., Spahr, S., Struck, S. D., Higgins, C. P., & Luthy, R. G. (2023). Black Carbon-Amended Engineered Media Filters for Improved Treatment of Stormwater Runoff. *ACS Environmental Au*, 3(1), 34.

Spahr, S., Teixidó, M., Gall, S. S., Pritchard, J. C., Hagemann, N., Helmreich, B., & Luthy, R. G. (2022). Performance of biochars for the elimination of trace organic contaminants and metals from urban stormwater. *Environmental Science: Water Research & Technology*, 8(6), 1287-1299.

Harris-Lovett, S., Luthy, R.G., "Securing Urban Water Systems in a Changing Climate in the San Francisco Bay Area," Climate Actions: Local Applications and Practical Solutions, CRC Press, 2022

Gile, B. C., Sciuto, P. A., Ashoori, N., & Luthy, R. G. (2020). Integrated Water Management at the Peri-Urban Interface: A Case Study of Monterey, California. *Water*, 12(12), 3585.

Luthy, R. G., Wolfand, J., Bradshaw, J. L., Urban Water Revolution: Sustainable Water Futures for California Cities, invited paper, *J. Environmental Engineering*, special issue, Legends and Pioneers, ASCE, DOI: 10.1061/(ASCE)EE.1943-7870.0001715, 2020.

Spahr, S., Teixidó, M., Sedlak, D L., Luthy, R. G., 2020, Hydrophilic trace organic contaminants in urban stormwater: Occurrence, toxicological relevance, and the need to enhance green stormwater infrastructure, *Environ. Sci.: Water Research & Technology*, Royal Soc. Chem. *6*(1), 15-44

Boehm, A.B., Bell, C.D., Fitzgerald, N.J., Gallo, E., Higgins, C.P., Hogue, T.S., Luthy, R.G., Portmann, A.C., Ulrich, B.A. and Wolfand, J.M., 2020. Biochar-augmented biofilters to improve pollutant removal from stormwater–can they improve receiving water quality? *Environmental Science: Water* Research & Technology, 6(1), pp.1520-1537.

Ashoori, N., Teixido, M., Spahr, S., LeFevre, G. H., Sedlak, D. L., and LuthyR. G.,. "Evaluation of pilot-scale biochar-amended woodchip bioreactors to remove nitrate, metals, and trace organic contaminants from urban stormwater runoff" *Water Research* 154, 1 (2019): 1-11. doi: 10.1016/j.watres.2019.01.040

Wolfand, J. M., Seller, C., Bell, C. D., Cho, Y. M., Oetjen, K., Hogue, T. S., & Luthy, R. G. (2019). Occurrence of Urban-Use Pesticides and Management with Enhanced Stormwater Control Measures at the Watershed Scale. *Environmental Science & Technology* 53, no. 7 (2019): 3634-3644.

Bradshaw, J. L., Osorio, M., Schmitt, T. G., & Luthy, R. G. (2019). System Modeling, Optimization, and Analysis of Recycled Water and Dynamic Storm Water Deliveries to Spreading Basins for Urban Groundwater Recharge. *Water Resources Research*, 55, 2446-2463.

Luthy, R. G., S. Sharvelle, and P. Dillon. "Urban Stormwater to Enhance Water Supply." *Environmental Science & Technology*, 53, no. 10 (2019): 5534. (cover feature article)

Bradshaw, J. L., Ashoori, N., Osorio, M., & Luthy, R. G. (2019). Modeling cost, energy, and total organic carbon trade-offs for stormwater spreading basin systems receiving recycled water produced using membrane-based, ozone-based, and hybrid advanced treatment trains. *Environmental science & technology*, *53*(6), 3128-3139.

Selected recognitions

American Chemical Society, Div. of Environ. Chem. (2023) Honor Award for Scientific Excellence for Improving Water Quality by Understanding Environmental Chemical Processes

Perry L. McCarty AEESP Founders Award for significant contributions to environmental engineering education, research, and practice (2023).

Rudolf Hering Medal, ASCE, for the most important paper for increase of knowledge in, and to the advancement of, the environmental engineering profession (2022)

Director, NSF Engineering Research Center for Re-inventing the Nation's Urban Water Infrastructure (ReNUWIt) (2011-2022)

AEESP, Paul Boulos Excellence in Computational Hydraulics/Hydrology Award (w. J. Bradshaw 2020)

ASCE, Recognition as a "Legend and Pioneer in Environmental Engineering," J. Environ. Eng. (2020)

UC Berkeley, Distinguished Lecture, Civil and Environmental Engineering (2018)

ASCE Innovation Award & Green Engineering Award, Washington, DC (w. J. Bradshaw 2017)

Gordon Maskew Fair Award, American Academy of Environmental Engineers and Scientists (2015)

Chair, National Research Council Committee on Beneficial Use of Graywater and Stormwater (2013- 15)

National Academy of Engineering: Peer Committee, Civil Engineering, Vice Chair and Chair (2013-16)

Fellow, Water Environment Federation (2013)

Academy of Distinguished Alumni, Dept. of Civil & Env. Eng., UC, Berkeley (2012); Board (2013- 22)

AEESP Distinguished Lecturer (2011-2012)

Chair & Founding Member, AEESP Foundation Board (2009-2011)

Chair, Peer Review, Swiss Federal Institute of Aquatic Science and Technology (2009)

Chair, Review Panel, Helmholtz Program on Sustainable Water Resources Management, Leipzig (2009)

Einstein Chair Professor, Chinese Academy of Sciences (2005)

National Research Council, Committee on Sediment Dredging at Superfund Megasites (2005-2007)

Chair Professor, Dept. of Environ. Sci. and Eng., Tsinghua University, Beijing, China (2004-2007)

Board Member, Water Environment Research Foundation (2003-2006)

Lifetime National Associate of the National Academies, NAS, First Class of National Associates (2001)

Jack Edward McKee Medal, Water Environment Federation (2000)

National Research Council, Chair, Committee on Bioavailability of Contaminants (2000-2002)

Member, National Academy of Engineering (elected 1999)