

# **Joan B. Rose**

**Homer Nowlin Chair in Water Research, Dept of Fisheries and Wildlife at Michigan State University**

East Lansing, MI, US

International expert in water and public health microbiology, studies viruses, source tracking and protozoa in water with new tools.

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## **Biography**

Joan B. Rose holds the Homer Nowlin Chair in Water Research at Michigan State University in the Depts of Fisheries & Wildlife and Plant, Soil and Microbiological Science. and currently leads of the Global Water Pathogens Project in partnership with UNESCO [www.waterpathogens.org](http://www.waterpathogens.org); <http://www.rose.canr.msu.edu/>. She is the winner of the 2016 Stockholm Water Prize. She is a member of the National Academy of Engineering and a Fellow of the American Academy of Microbiology. Dr. Rose served as the Chair of the Health Related Water Microbiology Specialist Group for the IWA from 2003 to 2010. Elected as a Fellow to the International Water Association, 2010 and as Distinguished Fellow in 2014. Dr. Rose has served on the Strategic Council for the IWA from 2011-2015 and is Vice Chair of the US National Committee for the IWA. She received the first International Water Association Hei-jin Woo Award for Achievements of Women in the Water Profession, 2008. She has served on the Board for the IWA from 2016. Dr. Rose earned her B.Sc. and Ph.D. in microbiology from the University of Arizona, Tucson and is an international expert in water microbiology, water quality and public health safety. She has published more than 300 manuscripts. Her work addresses the use of new molecular tools for surveying and mapping water pollution for recreational and drinking water, irrigation water, coastal and ballast waters ; assessment of innovative water treatment technology for the developed and developing world; and use of quantitative microbial risk assessment. She is the 2001 recipient of the Clarke Water Prize and recently been awarded Honorary Citizenship in Singapore for her contributions to water quality, water education and Singapore's water security 4-taps program.

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## **Industry Expertise**

Environmental Services, Research, Writing and Editing, Education/Learning

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## **Areas of Expertise**

Wastewater Treatment and Reuse, Microbial Source Tracking, Quantitative Microbial Risk Assessment, Public Health Microbiology, Environmental Virology, Cryptosporidium and Giardia Testing in Water, Water Treatment and Disinfection

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## **Affiliations**

International Water Association: Fellow, U.S. Environmental Protection Agency's Great Lakes Advisory Board

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## **Education**

**University of Arizona**  
Ph.D. Microbiology

**University of Wyoming**  
M.S. Microbiology

**University of Arizona**  
B.S. Microbiology

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## **Accomplishments**

**Appointed to the National Research Council**  
Appointed by the National Academies Board on Environmental Studies and Toxicology

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