



THE SECRETARY OF THE INTERIOR
WASHINGTON

**CITATION
FOR DISTINGUISHED SERVICE**

TIMOTHY A. COHN

For his outstanding leadership and scientific contributions to the U.S. Geological Survey (USGS) in the field of statistical hydrology and flood-frequency analysis.

Dr. Timothy A. Cohn is a recognized world expert in advanced mathematical theory and statistical treatment of practical problems in hydrology such as the estimation of flood frequencies, determination of nutrient loads in rivers, and detection of hydrologic trends. Over his 30 years with the USGS, Dr. Cohn has greatly contributed to the advancement of statistical understanding of hydrologic data and developed innovative tools to help scientists, engineers, and policy makers better understand water quality and floods in a manner that informs and protects all Americans. His tools and concepts are now used by various Federal agencies and incorporated in software that is used worldwide. His enhancements of flood frequency analysis techniques are the basis of new Federal interagency guidelines proposed for adoption by the Advisory Committee for Water Information. Dr. Cohn has coauthored several groundbreaking articles dealing with the difficulty of discerning true statistical trends in datasets of natural phenomenon such as temperature, precipitation, and water quality, and of avoiding false "detections" of trends in data subject to natural patterns of variation. Dr. Cohn served as the USGS Director's Science Advisor for Hazards, is active in the American and European Geophysical Unions, is a past president of the American Geophysical Union (AGU) focus group on Societal Impacts and Policy Sciences, and was an AGU Congressional Science Fellow. He has served as a member of the Board of Governors and Executive Committee of the American Institute of Physics, the National Academy of Science Disasters Roundtable Steering Committee, and as an associate editor of *Water Resources Research*. Throughout his career, Dr. Cohn has inspired and mentored his USGS colleagues to identify those scientific endeavors most requiring the unique institutional perspectives and capabilities of the USGS and to uphold the highest standards in personal integrity and scientific research. For his exceptional contributions to the USGS, Dr. Timothy Cohn is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

APR 06 2016


Secretary of the Interior



THE SECRETARY OF THE INTERIOR
WASHINGTON

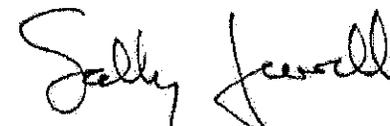
**CITATION
FOR DISTINGUISHED SERVICE**

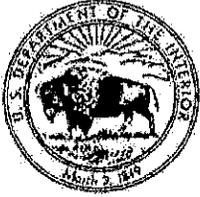
BRENDA K. JONES

In recognition of her exceptional contributions to the Natural Hazards and Emergency Response activities of the U.S. Geological Survey (USGS) Land Remote Sensing Program.

Brenda K. Jones is recognized for her work in remote sensing disaster support. Throughout her career, and in her current role as a Senior Scientist for the Earth Resources Observation and Science (EROS) Center Emergency Response Project, she acquired and distributed vitally important remote sensing data about natural and manmade hazards. This data assists decision makers at all levels of Government in mitigation planning and emergency response to Federal disaster declarations. With career experience as a Production System Analyst responsible for incorporating new image processing techniques in EROS's rapidly evolving digital data production system, and as an EROS's Disaster Response Coordinator, Ms. Jones was instrumental in the design and development of the EROS web-based Hazards Data Distribution System. She also served as an EROS primary point of contact, coordinator, and respondent for providing remotely sensed and other geospatial data sets to the domestic and international emergency response community. This extensive experience in digital processing of remote sensing data and firsthand knowledge of first response organizations, led to Ms. Jones' role as a USGS hazards response liaison, where she has been instrumental in providing timely and accurate remote sensing information during numerous events. Brenda Jones has provided remote sensing data for Hurricane Sandy, the Haiti Earthquake, and the Deep Horizon oil spill. She improved coordination between Government and emergency response organizations, ultimately saving lives and property. Ms. Jones played a key role in the development, acceptance, and implementation of the International Charter for Space and Major Disasters, serving as Executive Secretariat and training state and foreign program managers. She has demonstrated superb leadership skills in promoting and facilitating teamwork between hazards response groups including leading the Data Management activity of the Committee on Earth Observation Satellites Working Group on Disasters. For her outstanding contributions to the Natural Hazards and Emergency Response activities of the USGS, Brenda K. Jones is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

DEC 10 2015


Secretary of the Interior



THE SECRETARY OF THE INTERIOR
WASHINGTON

CITATION
FOR DISTINGUISHED SERVICE
DENIS R. LEBLANC

In recognition of his outstanding contributions to collaborative, field-based groundwater science for the Department of the Interior.

Denis R. LeBlanc is widely recognized in the U.S. Geological Survey (USGS) and in the broader research community for his many years of scientific leadership and contributions in groundwater science. He created and led what has become one of the world's premier groundwater transport research sites on Cape Cod, Massachusetts. With the support of the USGS Toxic Substances Hydrology Program, Mr. LeBlanc and his collaborators pioneered the design and execution of controlled, large-scale groundwater tracer experiments in the United States. These experiments, and subsequent tracer tests at smaller scales, have greatly enhanced the basic understanding of the physical, chemical, and microbiological processes governing groundwater flow and quality. As part of this program, he led research on the history, chemistry, and microbiology of a large treated wastewater plume underlying the site. Studies at the Cape Cod site have generated over 450 peer-reviewed publications to date. He has conducted field tours at the site for Members of Congress, international visitors, university groups, and the general public, and has consistently found ways to relate research findings to societal concerns. Mr. LeBlanc also established a cooperative research program with the Department of Defense at Joint Base Cape Cod, providing the scientific foundation for groundwater restoration at the Base. His work facilitated a highly credible, cost-effective remediation process with benefits for public health, the environment, and the taxpayer. Mr. LeBlanc's contributions have been recognized by the Massachusetts Institute of Technology, which named him the John R. Freeman Lecturer for 2007, and the Geological Society of America, where he was honored as a Fellow in 2013. As a scientist, science manager, and public servant, Mr. LeBlanc has consistently maintained the highest personal and professional standards for which the USGS is known. For his outstanding contributions, Denis R. LeBlanc is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

DEC 10 2015


Secretary of the Interior



THE SECRETARY OF THE INTERIOR
WASHINGTON

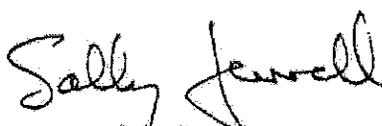
CITATION
FOR DISTINGUISHED SERVICE

THOMAS R. LOVELAND

In recognition of his outstanding scientific leadership in land remote sensing for the Climate and Land Use Change Mission Area of the U.S. Geological Survey (USGS).

Dr. Thomas R. Loveland has demonstrated outstanding scientific insight, technical knowledge, and management skills in the development of land remote sensing satellite research of critical importance to environmental management and policy decisionmaking. Dr. Loveland, an expert in the use of Landsat technology, led the combined effort of scientific researchers and information technology and system engineers in creating an advanced remote sensing based land-change science information system. This system is capable of accurately characterizing the rates, causes, and consequences of land cover change. His strong engagement with scientists around the world fostered important international collaborations integrating high-resolution global land cover mapping and monitoring capabilities. Dr. Loveland's ability to transform the science and technical information into usable knowledge for decision makers, resource managers, and program executives resulted in fundamental connections across national and international science fora, Government, and industry partners. Dr. Loveland led a collaborative effort between the USGS, University of Maryland, Google Earth Engine, the Moore Foundation, and the National Aeronautic Space Administration using Landsat satellite data to comprehensively describe changes in the world's forests from the beginning of this century. This unparalleled survey of global forests tracked forest loss and gain, mapping the changes over 12 years. This work resulted in a precedent setting article published in *Science* providing the first detailed global analysis of forest change, which became an extensively cited reference worldwide. Dr. Loveland has produced over 250 publications and presentations across all levels of scientific inquiry demonstrating the exceptional scope and breadth of his collective scientific record and its fundamental importance to domestic and international Landsat data users and the worldwide remote sensing community. For his outstanding service and exceptional contributions, Dr. Thomas R. Loveland is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

DEC 10 2015


Secretary of the Interior



THE SECRETARY OF THE INTERIOR
WASHINGTON

**CITATION
FOR DISTINGUISHED SERVICE**

MICHAEL T. MEYER

In recognition of his outstanding leadership and scientific contributions in advancing the understanding of the occurrence, fate, and transport of organic contaminants.

Dr. Michael T. Meyer began his career in 1987 at the U.S. Geological Survey (USGS) Organic Geochemistry Research Laboratory (OGRL) in Kansas as a Ph.D. student studying the environmental fate of pesticides and their breakdown products. He has continued this research as Director of the OGRL where his geochemical expertise has provided new knowledge of the occurrence, fate, and transport of organic contaminants and their degradation products in the environment. Dr. Meyer and his team have developed innovative analytical methods and applications to study the behavior of new and understudied organic contaminants such as pesticides, antibiotics, natural and synthetic steroidal compounds, and "inert" ingredients in pesticide formulations in the environment. Dr. Meyer initiated and participated in laboratory, watershed, regional and national scale studies of selected organic contaminants in surface and groundwater. His research results demonstrated that antibiotics are transported into surface and groundwater from both urban and agricultural sources. His collaborative efforts with a team of USGS scientists provided the first published documentation on the national occurrence of a wide variety of hormones, pharmaceuticals, personal care products, and other wastewater contaminants that are released into surface water throughout the United States. In 2003, the authors of this paper received the USGS Shoemaker Communication Award – this paper is also the most highly cited paper in the journal *Environmental Science and Technology*. In another collaborative paper, Dr. Meyer received the Rudolf Hering Medal for the most significant paper in environmental engineering. Collectively, these studies have had a profound impact on our understanding of the occurrence, fate, and geochemical transport processes of organic compounds that are not routinely measured. In 2014, Dr. Meyer was highlighted as a Thomson Reuters Highly Cited Researcher, ranking among the top 1 percent of researchers for most cited documents in their specific field (Environment/Ecology). For his visionary leadership as a public servant dedicated to advancing science, Dr. Michael T. Meyer is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

DEC 10 2015


Secretary of the Interior



THE SECRETARY OF THE INTERIOR
WASHINGTON

CITATION
FOR DISTINGUISHED SERVICE
DAVID P. RUSS

In recognition of his outstanding contributions to scientific research and exceptional leadership for the U.S. Geological Survey (USGS) and the Department of the Interior (DOI).

Dr. David P. Russ has been recognized throughout his career for his scientific expertise, including making the first independent determination of the recurrence intervals for the earthquakes of the New Madrid Seismic Zone. As Regional Director for the Northeast, Dr. Russ is also recognized for advancing the mission of the USGS through sound leadership and creative management while working tirelessly to achieve effective application of USGS science to address major societal issues. With a team of USGS scientists, he developed a science plan that integrated the best scientific information to support successful restoration of the Chesapeake Bay. This adherence to sound science led to enthusiastic adoption of the plan by the multiple Federal, State, and municipal agencies involved. Dr. Russ's reputation for developing sound credible science led to his role as a technical lead for DOI on the national issue of hydraulic fracturing of rocks for oil and gas production with potential environmental damage, such as pollution of water supplies, being a highly debated subject. Dr. Russ contributed significantly to the design of a multi-agency Federal research strategy addressing fracturing. He also introduced the concept of baseline analysis of the environment prior to fracturing, demonstrating that certain chemicals in question occur naturally. His baseline analysis was adopted as a fundamental procedure of the Federal-State plan for regulating fracturing. His persuasive stand for making sound science the basis for public policy brought rational discussion and positive recognition for the USGS role. For his profound dedication to the highest integrity in USGS science, his abiding support of USGS scientists; and for his long-term commitment to diversity in the workforce, Dr. David P. Russ is granted the highest honor of the Department of the Interior, the Distinguished Service Award.

DEC 10 2015

Sally Jewell
Secretary of the Interior