

Resume of Robert M. Hirsch

Present Position:

Research Hydrologist
U.S. Geological Survey
Reston, VA

703-648-5888
fax 703-648-5832
email rhirsch@usgs.gov

Address :

U.S. Geological Survey
432 National Center
Reston, VA 20192

Date of birth: June 6, 1949:

Education:

Earlham College, B.S. in Geology, Phi Beta Kappa, 1971

University of Washington, M.S. in Geology, 1974

The Johns Hopkins University, Ph.D. in Geography & Environmental Engineering, 1976

Career History:

Hydrologist, USGS, Reston, VA, 1976-1980

Chief, Branch of Systems Analysis, USGS, Reston, VA, 1980-1987

Staff Assistant to Assistant Secretary of the Interior, Washington, DC, 1987-1988

Assistant Chief Hydrologist for Research, Reston, VA 1989-1993

Acting Director, USGS, Reston, VA, August 1993-March 1994

Chief Hydrologist*, USGS, Reston, VA, 1994- May 2008

*position re-titled Associate Director for Water, 2000

Research Hydrologist, National Research Program, Water, USGS, Reston, VA, May 2008-

Scientific and Leadership Experience:

Conducted research related to: water supply, drought, water quality, pollution transport, and flood risk.

Developed several new methods of water-data analysis, published in statistical texts and used extensively world-wide.

As Chief Hydrologist for 14 years, directed all USGS programs related to water. These include data collection, data management, interpretive studies, and research, covering topics of surface and ground water and water quantity and quality.

Leading role in development of these USGS programs: National Water Quality Assessment Program, Global Change Hydrology Program, Watershed Modeling Program, National Water Information System Web Interface (NWISWeb), and National Streamflow Information Program.

Testified before Congressional Committees 16 times since 2001.

34 published journal articles, books, book chapters, or book reviews, plus 15 USGS reports

Honors:

Presidential Rank Award of Meritorious Senior Executive, 1994 and 2003

Distinguished Service Award, U.S. Department of the Interior, 1994

Outstanding Alumni Award, Earlham College, 1995

Fellow, American Association for the Advancement of Science, 1995

Water Management Achievement Award, Interstate Council on Water Policy, 1996

Ackermann Medal for Excellence in Water Management, American Water Resources Association, 2006

Committee Activities:

Co-Chair, Subcommittee on Water Availability and Quality (SWAQ), Committee on Environment and Natural Resources, National Science and Technology Council, 2003 - present

Alternate Chair, Advisory Committee on Water Information, 1994-2008 (served as *de facto* chair throughout most of this period).

Member, External Advisory Board, National Center for Earth Surface Dynamics, 2003-2006.

Member, Editorial Advisory Board, *Environmental Science and Technology*, published by the American Chemical Society, 2005-present

Current Research Interests:

Analysis of long-term changes in nutrient flux in major river systems, leading to better understanding of the effectiveness of nutrient management systems

Analysis of long-term changes in streamflow and flood hazards resulting from global climate change, leading to improved understanding and prediction of likely future changes and to improved approaches to water and hazard planning in the face of climate change and climate uncertainty.