

## **David L. Evans, Ph.D.**

### **Education**

Ph. D., Oceanography, University of Rhode Island, 1975

B.A., Mathematics, University of Pennsylvania, 1968

Teacher Certification Villanova University, 1970

### **Employment History**

2007–Present Noblis (formerly Mitretek Systems), Falls Church, VA

2002–2007 Under Secretary for Science, Smithsonian Institution

1993–2002 National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, Silver Spring, MD

1988–1992 Office of Naval Research, Arlington, VA

1971–1988 University of Rhode Island, Kingston, RI

1969–1971 Penncrest High School, Lima, PA

### **Professional Experience**

#### **2007–Present Noblis (formerly Mitretek Systems), Falls Church, VA**

*Corporate Director of Science*

Dr. Evans is engaged in building company-wide science-based initiatives. His initial efforts are focused on an emerging Noblis program to aid federal, state, and local governments in developing strategies to adapt to climate change. He is also working to expand existing programs in ocean, atmosphere, space, energy, and environmental science and engineering.

#### **2002–2007 Smithsonian Institution, Washington, DC**

*Under Secretary for Science*

Dr. Evans produced and implemented first-ever strategic plan for seven science organizations. He raised more than \$100 million over four years for science units. He hired new directors for five of seven units and funded the first-ever “Artists In Residence Fellowship” program. Dr. Evans established federally funded fellowship program for graduate and post-doc students. He oversaw renovations of museum and zoo buildings and exhibits valued over \$200 million. In addition, he implemented performance-based review system based on scholarly research, management and outreach and served as Interim Director, National Zoological Park, January through October 2005.

#### **1993–2002 National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Commerce, Silver Spring, MD**

*Assistant Administrator for Research (1998–2002)*

While serving in this capacity, Dr. Evans received the Presidential Rank award.

*Deputy Assistant Administrator for Fisheries (1997-1998)*

*Senior Scientist and Deputy Assistant Administrator for Ocean Services (1993-1997)*

#### **1988–1992 Office of Naval Research, Arlington, VA**

*Program Manager for Physical Oceanography*

#### **1971–1988 University of Rhode Island, Kingston, RI**

*Assistant and Associate Professor (tenure), Oceanography (1976–1988)*

Dr. Evans spent 1986 and 1987 at the Office of Naval Research.

*Research Assistant and Research Associate, 1971-1975*

**1969–1971 Penncrest High School, Lima, PA**

*High school mathematics teacher*

### **Memberships**

American Association for the Advancement of Science

American Meteorological Society

American Geophysical Union

The Oceanography Society (past Treasurer)

American Association of Museums

Association of Zoos and Aquariums

### **Other Service**

Member of the Governing Board of the Indo-U.S. Science and Technology Forum

Member of the Board of the Research Channel

White House Science Advisor on Climate Change

Expert witness for Congress on ocean science and climate change

Chair of several international science activities including the Marine Fisheries and Oceanography Protocol under the US-China Science and Technology 1998-2002

Reviewer for *Science* and other journals

Reviewer for numerous National Science Foundation, National Aeronautics and Space Administration and National Oceanic and Atmospheric Administration panels

Served on University of Rhode Island Faculty Senate, Space Committee, Ship Committee

### **Publications**

#### ***Dissertation***

"Large and small-scale temperature-salinity correlations in the ocean," URI 1975

#### ***Public Speeches***

2006 speeches on basic research, scientific literacy, and collections-based research are available on DVD.

Others: Angelo Gordon Investors Conference, keynote speaker (climate change)

James B. Hunt, Jr. Institute for Educational Leadership and Policy Conference, keynote speaker

National Science Foundation public lecture on Ocean Circulation and Climate Change

Thomas Jefferson High School of Technology faculty lecture on science education

Smithsonian Environmental Research Center public lecture on science and the public interest

Edit and record biweekly podcast, *Spotlight on Smithsonian Science*

#### ***Popular Articles***

Evans, D. "Science Matters," *Zoogoer*, March/April 2005.

Evans, D. "For the Birds," *Zoogoer*, May/June 2005.

Evans, D. "Elephants in our Future," *Zoogoer*, July/August 2005.

Evans, D. "Two Exciting New Arrivals at the National Zoo," *Zoogoer*, September/October 2005.

### ***Peer-Reviewed Publications***

- Evans, D. 2000. "Building a National Climate Service," *The Climate Report* [e-journal, September edition]
- Briscoe, M. and D. Evans. 1993. "The Application of Marine Sciences in the Coming Decades," *Oceanography Magazine*, 6(3). 138-140.
- Evans, D., A. Mascarenhas, and N. Garfield. 1992. "A note on the transport of Brazil at 31 S," *J. Phys. Oceanogr.*
- Halliwell, G., P. Cornillon, D. Evans, K. Brink, K. Davidson, R. Pollard, L. Regier, R. Schmitt. 1991. "Descriptive oceanography during FASINEX, medium to large scale variability," *J. Geophys. Res.*
- Cornillon, P., D. Evans, O. Brown, R. Evans, P. Eden and J. Brown. 1988. "Processing, compression, and transmission of satellite IR data for near-real-time use at sea," *J. Atmos. and Ocean Tech.*, 5, 320-327.
- Garfield, N. and D. Evans. 1987. "Shelf Water entrainment by Gulf Stream warm core rings," *J. Geophys. Res.*, 92, 13003-13012.
- Cornillon, P., D. Evans, and W. Large. 1986. "Warm outbreaks from the Gulf Stream," *J. Geophys. Res.*, 91, 6583-6596.
- Evans, D. and S. Signorini. 1985. "The vertical structure of the Brazil Current," *Nature*, 315(6014), 48-50.
- Miller, J. and D. Evans. 1984. "Density and velocity finestructure enhancement in oceanic eddies," *J. Geophys. Res.*, 90, 4793-4806.
- Evans, D., R. Watts, D. Halpern and S. Bourassa. 1984. "Oceanic winds measured from the sea floor," *J. Geophys. Res.*, 89, 3462-3472.
- Signorini, S., L. Miranda and D. Evans. "Levantamento detalhado do campo de temperaturas da Corrente do Brasil entre 19 e 20 S utilizando amostradores tipo XBT," 1983, *Bolm Inst. Ocgr.*, Sao Paulo.
- Kerman, B., D. Evans, R. Watts and D. Halpern. 1983. "Wind dependence of underwater ambient noise," *Boundary Layer Meteor.*, 26, 105-113.
- Evans, D., S. Signorini and M. Miranda. 1983. "A Note Brazil Current," *J. Phys. Oceanogr.*, 13(9), 1732-1738.
- Evans, D. and R. Watts. 1982. "Wind speed and stress at the sea surface from ambient noise measurements," *Proc. Int. Symposium of Acoustical Remote Sensing of the Atmosphere and Ocean*, Calgary, Canada.
- Evans, D. 1981. "Velocity shear in a thermohaline staircase," *Deep-Sea Res.*, 28(11), pp. 1409-1415.
- Evans, D., T. Rossby, M. Mork and T. Gytte. 1979. "YVETTE-A Free Fall Shear Profiler," *Deep-Sea Res.*, 26(6), pp. 703-718.
- Evans, D. 1982. "Observations of small-scale shear and density structure in the ocean," *Deep-Sea Res.*, 29(5), pp. 581-595.
- Schmitt, R. and D. Evans. 1978. "An estimate of the vertical mixing due to salt fingers based on observations in the North Atlantic Central Water," *J. Geophys. Res.*, 83 (C3), pp. 2913-~919.

- Evans, D. and H. Freeland. 1976. "Variations in the Earth's Orbit: Pacemaker of the Ice Ages?" *Science* 198, pp. 5328-5330.
- Evans, D. 1968. "Data structure programming system," *Proceedings of the International Federation for information Processing Congress 68*, Edinburgh, Scotland.
- Evans, D. and A. van Dam. 1966. "A compact data structure for storing retrieving and manipulating line drawings," *Proceedings of the Spring Joint Computer Conference*, Atlantic City.
- van Dam, A. and D. Evans. 1964. "SHIRTDIF - A system for the storage, handling and retrieval of technical information in image format," *Proceedings of the American Documentation Institute*, October.
- Evans, D. 1962. "MICROVAC - A Microscopic Hypothetical Computer," *Educational Session of the Fall Joint Computer Conference*, Philadelphia.

***Published Abstracts***

- Garfield, N. and D. Evans. 1988. "Surface characteristics of the Brazil Current," abstract in *Trans AGU* 69(44), 1237. (best student paper at fall AGU).
- Garfield, N. and D. Evans, 1986. "Shelf water entrainment by the Gulf Stream," abstract in *Trans AGU* 67.
- Evans, D. 1986. "The Brazil Current at 23 and 31 S," Seminar/Workshop on the Southwestern Atlantic Ocean. Mar del Plata, Argentina 31 March 1986.
- Evans, D., Boehm, E., and P. Cornillon. 1985. "Observations of the subtropical convergence front at 70W," IAMAP/IAPSO Joint Assembly, Hawaii.
- Cornillon, P. and D. Evans. 1983. "Warm outbreaks of the Gulf Stream into the Sargasso Sea," abstract in *Trans. AGU* 64(82).
- Evans, D. 1983. "Velocity profiles in the Brazil Current at 24S," abstract in *Trans. AGU* 64(52).
- Miller, J. and D. Evans. 1981. "The calculation and interpretation of oceanic Richardson number," abstract in *Trans. AGU* 62(5).
- Evans, D. and R. Watts. 1979. "Wind speed measurements derived from ambient noise levels in the ocean," abstract in *Trans. AGU* 60.
- Sanford, P., N. Hogg, M. Gregg, A. Gargett, D. Evans, T. Rossby and A Williams. 1977. "An overview of the North Atlantic fine and microstructure cruise," abstract in *Trans. AGU* 58.
- Evans, D. and T. Rossby. 1976. "Observations of shear and density finestructure in the Sargasso Sea," abstract in *Trans. AGU* 57(12), p. 929.
- Evans, D. and R.B. Lambert, Jr. 1974. "A confined thermohaline staircase," abstract in *Trans. AGU* 55(4), pp. 296.
- Evans, D. 1974. "A relationship between microstructure and the mean T-S correlation," abstract in *Trans. AGU* 55(4), p. 297.
- Evans, D. 1973. "Microstructure observations in the Northeast Caribbean Sea," abstract in *Trans. AGU* 54(4), p. 321.