

CURRICULUM VITAE

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I. Education

1964 B. Eng. Sc., The Johns Hopkins University, Chemical Engineering.

1968 Ph.D., The Johns Hopkins University, Chemical Engineering.

II. Professional Background

Summers of 1961-1963	Research Assistant, Martin Marietta Corporation, Baltimore, Maryland, and Orlando, Florida.
1964	Laboratory Assistant, Institut fuer Physikalische Chemie der Universitaet Goettingen, Federal Republic of Germany. Graduate Student, Department of Chemical Engineering, the Johns Hopkins University. Dissertation Topic: Reaction-Diffusion Coupling in Complex Systems. Major Professor: George C. Frazier.
1968-1970	Assistant Professor of Chemical Engineering, The Catholic University of America.
1970-1974	Research Assistant Professor, Natural Resources Institute, University of Maryland.
1974-1980	Associate Professor, Center for Environmental Science, University of Maryland, Chesapeake Biological Laboratory.
1980-2008	Professor, Center for Environmental Science, University of Maryland, Chesapeake Biological Laboratory.
2002-Present	External Fellow, Center for the Study of Biological Complexity, Virginia Commonwealth University, Richmond, Virginia.
2008-Present	Professor Emeritus, Center for Environmental Science, University of Maryland, Chesapeake Biological Laboratory.
2009-Present	Courtesy Professor, Department of Biology, University of Florida, Gainesville, FL

Awards and Special Recognition

- 2007 Recipient of Ilya Prigogine Medal, Wessex Institute and University of Siena. Awarded at University of Coimbra, September 5, 2007.
- 2001 Royal Seminar. Presented to Karl Gustav, XVI at Baltic Sea Science Conference 2001. Stockholm, Sweden.

Listed in American Men and Women of Science, Who's Who in the East, Who's Who in Science and Engineering, Who's Who Among Polish-Americans, Men of Achievement, and Who's Who – Polania.

Honorary academic societies include: Phi Beta Kappa (Arts and Sciences), Tau Beta Pi (Engineering) and Phi Lambda Upsilon (Chemistry).

III. Research

A. Areas of professional expertise

Analysis of ecological networks, information theory in ecology, thermodynamics in ecology, causality in evolving systems, dialogue between science and religion.

B. Selected Peer-Reviewed Publications (Last five years)

Ulanowicz, R.E. 2009. *A Third Window: Natural Life beyond Newton*. Templeton Foundation Press, West Conshohocken, Pennsylvania. 196p

Ulanowicz, R.E. 2009. The dual nature of ecosystem dynamics. *Ecological Modelling* 220:1886-1892.

Ulanowicz, R.E. 2009. Increasing entropy: Heat death or perpetual harmonies? *Design and Nature & Ecodynamics* 4(2):1-14.

Ulanowicz, R.E. 2011. Towards Quantifying a Wider Reality: Shannon Exonerata. *Information* 2:624-634.

Ulanowicz, R.E. 2012. Widening the third window. *Axiomathes* 22:269-289.

Ulanowicz, R.E. 2013. A world of contingencies. *Zygon* 48:77-92.

Ulanowicz, R.E., R.D. Holt, M. Barfield. 2014. Limits on Ecosystem Trophic Complexity: Insights from Ecological Network Analysis. *Ecology Letters* 17: 127–136.