

CURRICULUM VITAE

George W. Luther, III

Maxwell P. and Mildred H. Harrington Professor of Marine Chemistry

VITAL STATISTICS:

Born: February 17, 1947
Philadelphia, Penna.
Married, two children

Address: School of Marine Science & Policy
University of Delaware, 1044 College Drive
Lewes, DE. 19958
(302) 645-4208 (office); luther@udel.edu

EDUCATION:

Ph.D. (Physical-Inorganic Chemistry), University of Pittsburgh, 1972
B.A. (Chemistry), La Salle College, 1968

PROFESSIONAL SOCIETIES:

American Association for the Advancement of Science (AAAS); American Chemical Society (ACS); American Geophysical Union (AGU); Association for the Sciences of Limnology and Oceanography (ASLO); The Geochemical Society (GS); The Oceanography Society (TOS); Coastal and Estuarine Research Federation (CERF); Society for Electroanalytical Chemistry (SEAC).

HONORS:

Fellow of the Association for the Sciences of Limnology and Oceanography (ASLO), 2018
Fellow of the American Chemical Society (ACS), 2015
Fellow of the Geochemical Society / European Association of Geochemistry, 2014
University of Pittsburgh Department of Chemistry and Biochemistry Distinguished Alumnus, 2014
American Chemical Society (ACS) Geochemistry Division Medalist, 2013
Fellow of the American Geophysical Union (AGU), 2012
Fellow of the American Association for the Advancement of Science (AAAS), 2011
Essential Science Indicators Geosciences highest percent increase in total citations, 2009
Francis Alison Award 2006, University of Delaware's highest faculty honor
Geochemical Society's Clair C. Patterson Award, 2004
American Chemical Society's Geochemistry Division Chair succession, 1996-1998
University of Cardiff's (Wales) highest honorary title of Distinguished Visiting Fellow, 1996-present.
Inaugural Fred M. Weissman lecturer in analytical chemistry, University of South Carolina, April 4, 1997
Chemical Oceanography Gordon Conference Chairman, 1993-5
Chemical Oceanography Gordon Conference Vice Chairman, 1991-3
University of Delaware, College of Marine Studies, Best Paper Award, 1988
New Jersey Institute of Chemists (AIC) Honor Scroll Awardee, 1985
North Jersey American Chemical Society Local Section Chair succession, 1983-1985
New Jersey Academy of Science - Chemistry Chair 1980-81
Sigma Xi 1977- present; Phi Kappa Phi 1979-present; Phi Lambda Upsilon, Chemical Honors Fraternity
University of Pittsburgh Teaching Fellow 1972; National Defense Education Act Title IV Fellow 1968-71

PROFESSIONAL EXPERIENCE:

NDEA Fellow, University of Pittsburgh, 1968-71; Teaching Fellow, University of Pittsburgh, 1972
Assistant Professor, Chemistry-Physics Department, Kean College of New Jersey, 1972-76; Associate Professor, 1976-79; Professor 1979-1986; Chairman Chemistry-Physics Department, 1976-1984.
Associate Dean, University of Delaware, College of Marine Studies, 1986-1988. Professor, University of Delaware, School of Marine Science & Policy (formerly College of Marine Studies) 1986-present; Joint appointments in Delaware's Chemistry & Biochemistry Department; Civil and Environmental Engineering Department; Plant and Soil Department.

INTERIM EXPERIENCE:

Marine Biological Laboratory, Visiting Professor, August 1981, and July, 1983-1985.
College of Marine Studies, University of Delaware, June 1984 and June 1985.
EAWAG, Dübendorf, Switzerland, Distinguished Visiting Professor, March 24 -April 7, 1990.
University of Cardiff, Wales, Dept. of Geology, Senior Royal Fellow, Sept. 17 - Dec. 8, 1993.
University of Hawaii, School of Ocean and Earth Science and Technology, Visiting Professor, Jan. 17 - April 1, 1994.
Distinguished Visiting Professor, University of Cardiff, Wales, Dept. of Geology, January 1996 - present.
Distinguished Visiting Professor, Department of Chemistry, University of Buenos Aires, Argentina, August 15-20, 2010.
Distinguished Visiting Professor, Institut National Polytechnique de Toulouse, Ecole Nationale Supérieure des Ingénieurs en Arts Chimiques et Technologiques (INPT-ENSIACET-LCA), Toulouse, France, November 5 – December 3, 2011.
Co-organizer and Visiting Scholar “A training workshop on metal speciation and isotopes in the ocean for GEOTRACES and beyond”, Xiamen University, Xiamen, China May 12-17, 2018.

SELECTED EXTERNAL COMMITTEE SERVICE:

Organizer and presider, "Results of the **G**Aseous **S**ulfur **I**ntercomparison **E**xperiment (**GASIE**) for SO₂, Spring AGU meeting, May 20, 1996, Baltimore, MD; Leader and Coordinator for the NSF funded GASIE program, 1992-1995; Special Section Editor of JGR Atmospheres 102 (13)(1997).
Guest co-Editor with E. A. Boyle, *Chemical Reviews* special issue on *Chemical Oceanography*, Feb. 2007.
Member of the U.S. National Committee for the International Union of Geodesy and Geophysics (USNC/IUGG), 2000-2007.
Ocean Research Interactive Observatory Network (ORION) executive steering committee member, 2004-2006.
Replacement Human occupied vehicle Oversight Committee (RHOC) member, for the new DSV *Alvin*, 2006 – 2013.
The Oceanography Society (TOS) committee to elect TOS Fellows, 2007 – 2010; Chair 2009 - 2010.
DESSC (DEep Submergence Science Committee) member, 2009 – 2016.
InterRidge SCOR (IR-SCOR) working group on "Hydrothermal energy transfer and its impact on ocean carbon cycles". 2009 - 2018.
RIDGE R2K Steering Committee, 2009 – 2012.
Plenary Speaker and Theme Leader for NSF ‘**C**ome **A**board’ workshop (**C**hemical **O**ceanography **M**Eeting: **A** **B**ottom-Up **A**pproach to **R**esearch **D**irections), Oct. 2016.
Associate Editor, *Marine Chemistry* 1995-2018.
Editor-in-chief, *Aquatic Geochemistry* 2002-2018; Associate Editor 1993-2001; 2019-present.

RESEARCH INTERESTS:

Marine Chemistry; Electrochemistry; chemical sensor development; trace element speciation in marine waters and sediments; biogeochemical processes in marine environments including deep-sea hydrothermal vents; Geomicrobiology; application of the principles of physical chemistry including molecular orbital theory to geochemistry.

PUBLICATIONS:

Published over 270 papers in the scientific literature (4 in *Nature*; 5 in *Science*; 2 in *PNAS*; 1 in *Nature Geoscience*; 3 in *Nature Communications*). A list can be provided on request or can be downloaded at <http://www.ocean.udel.edu/people/profile.aspx?luther>. ISI Thompson Researcher ID: A-6384-2008.
Goggle scholar: <http://scholar.google.com/citations?user=AU7fhEAAAAAJ&hl=en&oi=ao>
BOOK: *Inorganic Chemistry for Geochemistry and Environmental Sciences: Fundamentals and Applications*. 2016. John Wiley & Sons Ltd, 456 pages. Identifiers: LCCN 2015047266 | ISBN 9781118851371 (cloth) <http://onlinelibrary.wiley.com/book/10.1002/9781118851432>