

College of Agriculture and Life Sciences
North Carolina State University
Biology Department

Charles F. Lytle

Higher Education:

1953 B.S. Wabash College, Zoology
1958 M.A. Indiana University, Zoology
1959 Ph.D. Indiana University, Zoology

Professional Experience:

1960-62 Assistant Professor, Zoology, Tulane University
1962-64 Biological Consultant, U.S. Army
1964-69 Asst. to Associate Professor, Zoology, Pennsylvania State University
1969-93 Coordinator, Biological Sciences Program, NCSU
1969-72 Associate Professor, Zoology, NCSU
1972-2007 Professor, Zoology, NCSU
1994-2007 Coordinator, Biology Outreach Programs, College of Agriculture and Life Sciences, North Carolina State University
2007 Emeritus Professor of Zoology

Scholarly Activities

Publications (since 1995)

Books

Lytle, C. F. . General Zoology Laboratory Guide, 6th Edition. Wm C Brown Publishing Co., Dubuque, IA. 368 pp.
Niedzlek-Feaver, M.J. , J. Zimmerman, and C.F. Lytle, 1996. Laboratory Investigations in Biology, Second Edition, Contemporary Publishing Company, Apex, NC, 271 pp.
Lytle, C. F. and John R. Meyer, 2012. General Zoology Laboratory Guide, Sixteenth Edition. McGraw-Hill Higher Education, New York, 412 pp.

Book Chapters

Lytle, C.F. 1997. Advanced Placement Biology as a Model for Science Education Reform, Globalization of Science Education. In: Proceedings of the International Conference on Science Education, Seoul, Korea. Contract Research Report CR 97-19. Korean Educational Development Institute, Seoul, Korea, pp. 85-88.
Lytle, C.F. , Haase, D, Day, J.P. 2000. Helping teachers enhance science experiences through Technology. Pp. 155-156 in: Proceedings of the Conference on K-12 Outreach from University Science Departments, North Carolina State University, Raleigh
Lytle, C.F, J. Wallace, D.Pugalee, P. Douville, and B. Evans. (2001) The North Carolina K-8 Science Infrastructure Project: A Model for Cooperation Among College Science Departments, Science Teachers and Educators. In Proceedings of the Second Conference on K-12 Outreach from University Science Departments, North Carolina State University, Raleigh,
Evans, Brenda and Charles Lytle, 2002. A State-wide Partnership for Educational

Reform Through Implementation of Inquiry Science. In Proceedings of the Australian- American Fulbright Symposium 2002: Science Education in Partnership. Macquarie University, Sydney, Australia.

Lytle, Charles and Brenda Evans, 2002. Finding Meaningful Roles for Scientists in Science Education Reform Efforts. In Proceedings of the Australian- American Fulbright Symposium 2002: Science Education in Partnership. Macquarie University, Sydney, Australia.

Professional Society Service and Offices Held

National Science Teacher's Association, 1970-present, Regional Program committee 1991-1992, College Visions Task Force 1993-4; College Teaching Committee, (1993-95)

National Assn. of Biology Teachers (National Program Committee, 1995-97)

National Association of Academies of Science, 1990-2004 (President 1993)

North Carolina Academy of Sciences, 1972-present, President 2007, Vice President 1998-99, (Exec. Board 1985-1990; 97-98; 2000-2013),

North Carolina Science Leadership Association (Board Member 1999-2005)

North Carolina Science Teachers Association (Local Program committee 1985,1991,1994; Technology Committee 1994-96)

Society of College Science Teachers 1985-2007 (Program Chair, Regional Meeting 1992)

Society of Sigma Xi 1958-present, (Past President, NC State Chapter)

Textbook and Academic Authors Association, 1982-present (Awards Committee, 1998, 1999, 2004)

Honors and Awards

Outstanding Teacher Award, NC State, 1982

Academy of Outstanding Teachers, NC State 1982

American Association for the Advancement of Science (Fellow) 1967

Science Star Award, SCIENCE: North Carolina (for outstanding service to public science literacy) 1995

Distinguished Service Award, National Assn. of Academies of Science, 1994.

Outstanding Service Award for College Faculty Member, The College Board, Southern Region, 1995.

McGuffey Award for Outstanding Textbook, Life Sciences. Text and Academic Authors Association, 1997, 2005.

Outstanding Service Award in Science Education, College of Education and Psychology, NC State, 1998

College of Agriculture and Life Sciences Outstanding Extension Award, NC State, 2000

Alumni Outstanding Extension Service Award, NC State, 2000

Academy of Outstanding Faculty Engaged in Extension, NC State 2000

Distinguished Service Award, NC Academy of Science, 1991,2004.

Michael Jackson Distinguished Service Award for service to science education in North Carolina

-State Committees and Activities:

Executive Director, North Carolina Student Academy of Science, 1985-

90, 2000-2004. Board Member, 1990-2005.
 Science Guidelines and Competencies Revision Committee, N. C. Department of Public Instruction, 1994-5
 Board Member, Quantum Research Services, Inc, 1995-2003
 North Carolina Science and Mathematics Advisory Council, Office of Governor, 1997-1999
 Advisory Board, North Carolina Mathematics and Science Education Network, 1999-2004
 Mentor, National Academy for Science Leadership Academy, 2000-2003.
 NC Presidential Awards Selection Committee, 1999-2003.
 Reviewer, State Biology End of Course Examinations, NC Department of Public Instruction, 2001
 Associate Director, North Carolina Infrastructure for Science Education, 2001-present

Regional and National Committees and Activities

Consultant to Educational Testing Service (Advanced Placement Examination, Biology Achievement Test, Graduate Record Examination, Praxis), 1975-2004
 Consultant to The College Board, 1980-present. Conducted Advanced Placement Biology Workshops and Seminars in more than 26 states, Canada, Korea, and France
 Member, Test Development Committee, Advanced Placement Biology, The College Board, 1989-92, chair, 1992-95
 Chairman, Academic Division, The College Board, Southern Region, 1994-95
 Chairman, Environmental Science Task Force, The College Board, 1994.
 Guidance and Admissions Council, The College Board, 1993-95
 Facilitator, Chemistry Examination Development Committee, Virginia State Department of Education and The College Board, 1996.
 NC Department of Public Instruction, Reviewer science tests and test items, 2000-2007

Recent Grants and Contract

1. The Research Community Project, supported by the Howard Hughes Medical Institute, \$1.6 million (2003-2007). Program Director for this multi-component project which provides research internships for undergraduate students from NCSU and nine other colleges
2. Delta Education. \$5,000 gift in support of the North Carolina Infrastructure for Science Education (NC-ISE), 2005.
3. Carolina Biological Supply Company, \$5,000 gift in support of the North Carolina Infrastructure for Science Education (2006)
4. Leadership Training for North Carolina Science Improvement, GlaxoSmithKline. \$20,000, 2005-2006.
5. Preparing science teacher leaders as facilitators for statewide training of K-12 teachers for implementation of inquiry science in NC Schools, GlaxoSmithKline, \$20,000, 2006-2007
6. Wake County Schools, \$2,000/year. Support of Science Materials Center, 2005,2006,/2007,2008,2009,2010,2011

