

CURRICULUM VITAE

DAVID K. LEWIS

Margaret W. Kelly Professor of Chemistry, Connecticut College

Principal Scientist, Aerodyne Research, Inc.

Addresses:

**Department of Chemistry
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New London CT 06320
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**Aerodyne Research, Inc.
45 Manning Road
Billerica MA 01821
Phone: 978/663-9500 (ext. 203)**

Education: Ph.D., Cornell University, 1970: Physical Chemistry
A.B., Amherst College, 1964: Chemistry (honors)

Teaching interests: Physical and biophysical chemistry; analytical and instrumental chemistry; atmospheric chemistry and physics; environmental issues; chemistry in art; peace studies

Research interests:

Atmospheric/environmental chemistry and physics
Studies of fast chemical reaction rates and mechanisms in shock tube
Computer modeling of chemical reaction
Ultrahigh resolution laser spectroscopy
Participation of minorities in the sciences

Community and personal interests:

Climate, weather and environmental concern
Community organizations that support people with disabilities
Technology and its applications to communication
Canoeing, hiking and cross-country skiing
History, particularly World War II
Music

Career summary:

Aerodyne Research, Inc., Principal Scientist, 2001-present

Responsibilities include designing instruments to detect and characterize fine particles in the atmosphere that are now recognized as concerns for climate and public health, and participating in many other projects that address air pollution detection and abatement, clean energy production and homeland security.

Connecticut College, 1995-present

Margaret W. Kelly Professor of Chemistry, 1996-present

Professor of Chemistry, 1995-96

Responsibilities include building a physical/analytical chemistry program; conducting a laboratory research program with Connecticut College undergraduates and collaborators from Aerodyne Research, Inc., NASA, Syracuse University, U.S. Coast Guard Academy and Hollins University. Assumed major responsibility for planning renovation of Hale Chemistry Laboratory in 1996.

Acting/Interim President, January-October 2001

Responsibilities included leading a team of eight vice presidents; working with faculty, staff and student committees to produce a balanced operating budget; strengthening shared governance; directing development of an emergency response plan; maintaining fund-raising momentum during the transition period; speaking at alumni events throughout the country; and producing a plan for a smooth transition for the next president.

Provost and Dean of the Faculty, 1997-2001

Responsibilities included hiring 36 new tenure-track faculty with a significant increase in diversity (12 minority faculty appointed); building trust among faculty and administrators; supervising academic deans, department chairs and program directors and working with them on curriculum, long-range planning and research funding proposals; securing an HHMI grant for the college and laying the groundwork for other major grant proposals; producing a comprehensive annual list of faculty accomplishments; improving the quality of grant proposals for the college's academic programs.

Colgate University, 1969-95

Charles A. Dana Professor of Chemistry, 1988-95

Director, Division of Natural Sciences and Mathematics, 1982-85, 1988-91

Chair, Department of Chemistry, 1987-88

Interim Associate Dean of the Faculty, 1985-86

Professor of Chemistry, 1980-88

Associate Professor of Chemistry, 1976-80

Assistant Professor of Chemistry, 1969-76

University of North Carolina at Chapel Hill, Visiting Professor, 1987

Syracuse University, Visiting Research Professor in Chemistry, 1986

University of Colorado and NOAA, Visiting Senior Research Fellow, 1977-78

Recent Professional Service:

Member, steering committee of the Holleran Center for Community Action and Public Policy

Consultant and member of visiting committees to many undergraduate colleges

Reviewer of proposals submitted to granting agencies including the National Science

Foundation, the Petroleum Research Fund of the American Chemical Society and Research Corporation

Reviewer of manuscripts submitted to *Journal of the American Chemical Society*, *Journal of Physical Chemistry*, *Journal of Organic Chemistry*, *Journal of the Air Pollution Control Association*, *International Journal of Chemical Kinetics*, *American Journal of Physiology* and *Journal of Chemical Education*

Represented Connecticut College at Annapolis Group, ACE, NESCAC and other meetings of college presidents, 2001

Reviewer of tenure and promotion dossiers for numerous colleges and universities

Designed programs, both at Connecticut College and at Colgate University, that steadily increased diversity in science programs and in research groups