Connecticut State University
Central • Eastern • Southern • Western
Office of the President

BR#90-101

P.O. Box 2008, New Britain, Connecticut 06050
(203) 827-7700

RESOLUTION

concerning

AWARD OF THE TITLE

CONNECTICUT STATE UNIVERSITY PROFESSOR

July 20, 1990

WHEREAS, The faculty at Western Connecticut State University has recommended Professor Robert J. Merrer for the title of Connecticut State University Professor, and

WHEREAS, The President of Western Connecticut State University, Stephen Feldman, has recommended awarding this title to Professor Merrer, and Connecticut State University President, Dallas K. Beal has concurred, and

WHEREAS, Professor Merrer, a scholar in chemistry, has served Western Connecticut State University as a member of the Chemistry Department and assisted in building the University's chemistry curriculum while attaining the highest levels of achievement in teaching, scholarship, and service, and

WHEREAS, Professor Merrer has helped to secure donations of significant amounts of equipment and software in Laboratory Information Management Systems (LIMS) for research and teaching at the University, and

WHEREAS, Professor Merrer has built a national reputation for his research on LIMS and has been recognized by his colleagues in the field for his professional excellence, therefore be it

RESOLVED, That the title, Connecticut State University Professor is herewith awarded by the Board of Trustees to Robert J. Merrer of Western Connecticut State University, effective July 20, 1990, pursuant to the BOT/AAUP Agreement, and be it further

RESOLVED, That Professor Merrer be entitled to all the rights, privileges, and responsibilities pertaining to this honor.

A Certified True Copy:

L. J. Davidson

L. J. Davidson
Chairperson

Dallas K. Beal

Dallas K. Beal
President

An Equal Opportunity Employer

FILE: E:CV

Curriculum Vitae

Name: Robert J. Merrer

Address: Department of Chemistry
Western Connecticut State University
Danbury, CT 06810

Education:

1961-1965	University of Connecticut B.A. Chemistry	June, 1965
1965-1967	University of Connecticut M.S. Analytical Chemistry	June, 1967
1967-1970	University of Connecticut Ph.D. Analytical Chemistry	June, 1970

Professional Experience:

Western Connecticut State University Danbury, CT	Professor of Chemistry; analytical chemistry and instrumental methods of analysis courses; research: atomic absorption, gas and liquid chromatography, laboratory information management systems
Beckman Instruments, Inc. Waldwick, NJ	Implementation of CALS Lab Manager System and Automated Data Acquisiton on WCSU's DEC VAXcluster on Ethernet
Perkin-Elmer Corporation Computer-Aided Chemistry Norwalk, CT	Consultant: preparation of C/LAS (Chromatography Laboratory Automation Software) manual
Harvard University School of Public Health Boston, MA	Consultant to the Department of Environmental Health Sciences; institution of quality assurance and quality control program for occupational environmental health hazards; NIOSH-PAT program; AIHA accreditation; institution of a collaborative round-robin program of heavy metal determination by atomic absorption spectroscopy
John Wiley and Sons, Inc. NY,NY	Manuscript consultant and reviewer in analytical chemistry; final galley sheet reviewer
Willard Grant Press, Inc. McGraw-Hill, Inc. Harcourt Brace Jovanovich	Manuscript reviewer

Private consulting	Analytical chemistry problems: legal aspects of breathalyzer testing; thermal precipitation effects; solvent screening for hat industry; Li batteries; glass monolithic microcolumns for gas chromatography
Bedoukian Research, Inc. Danbury, CT	Organic synthesis and analysis of flavor and fragrance compounds
Villa Maria College Erie, PA	Assistant Professor of Chemistry; analytical, general, and nursing chemistry; computers in chemistry
University of Pittsburgh Pittsburgh, PA	NSF Institute for academic time-sharing uses of the computer

Professional activities:

Publications

1. Robert J. Merrer and Peter G. Berthrong, "Academic LIMS: Concept and Practice", American Laboratory, 21, 36(1989)

2. Robert J. Merrer, "Information Management Systems in the Undergraduate Instrumental Analysis Laboratory: Part I. Introduction to LIMS", J. Chemical Education, 62, A149(1985)

3. Robert J. Merrer, "Information Management Systems in the Undergraduate Instrumental Analysis Laboratory: Part II. Applications of LIMS", J. Chemical Education, 62, A173(1985)

4. Robert J. Merrer and Wesley B. Thompson, "Laboratory Information Management in the Undergraduate Instrumental Laboratory", American Laboratory, 15, 56(1983)

5. Robert J. Merrer, "Time-Sharing in General and Analytical Chemistry Laboratories", J. Chemical Education, 52, 38(1975)

6. Robert J. Merrer, "Kinetics Program for the Iron(III) Catalyzed Decomposition of Hydrogen Peroxide", J. Chemical Education, 50, 514(1973)

7. Robert J. Merrer and John T. Stock, "Biamperometric Titrations of Hexacyanoferrate(III), Iron(III), Copper(II), Cerium(IV), and Iodine", Anal. Chim. Acta, 53, 233(1971)

8. John T. Stock and Robert J. Merrer, "Sources of Error in the Mercury(I) Titration of Low Concentrations of Hexacyanoferrate(III)", Microchem. J., 16, 77(1971)

9. Robert J. Merrer and John T. Stock, "Stability of Dilute Solutions of Mercury(I) Perchlorate", Analyst, 96, 359(1971)

10. Robert J. Merrer and John T. Stock, "Amperometric Titrations of Submillinormal Concentrations of Cerium(IV) with Mercury(I) Perchlorate", Analyst, 96, 361(1971)

11. Ph.D. Thesis: "Oxidation-Reduction Titrimetry at Submillinormal Concentration Involving Mercury(I) Perchlorate", June 1970, completed at the University of Connecticut under the direction of John T. Stock, Professor of Chemistry

12. John T. Stock and Robert J. Merrer, "Amperometric Titration of Submillinormal Concentrations of Hexacyanoferrate(III) with Mercury(I) Perchlorate", Analyst, 92, 98(1967)

Talks

1. October 1988: East Rutherford, NJ: "Academic Utilization of CALS"

2. April 1986: WCSU: Research and Development Committee Faculty Research Seminar: "LIMS and the Atomic Absorption Determination of Calcium in Human Serum"

3. March 1986: CCSU: CSU-AAUP Conference on Computers "Utilization of LIMS in the Undergraduate Instrumental Methods of Analysis Laboratory"

4. November 1985: Seton Hall University: North Jersey Section Featured Speaker for the American Chemical Society: "Chemical Risk Assessment in the Chemical Laboratory"

5. May 1984: Holy Cross College: Northeast Association of Academic Analytical Chemists "Computer-based Experiments in Instrumental Analysis"

6. May 1984: Holy Cross College: Northeast Association of Academic Analytical Chemists "Laboratory Information Management Systems in the Atomic Absorption Determination of Calcium in Serum"

7. April 1984: Hartford State Technical College: "Electronic Laboratory Notebook in Analytical Chemistry"

8. October 1983: WCSU Sigmi Xi Club "Chemistry Bit-by-bit"

9. August 1983: 25th Annual Rocky Mountain Conference in Denver and June 1983: Northeast Regional Meeting of the American Chemical Society: "Information Management in the Undergraduate Instrumental Laboratory"

10. March 1983: Sacred Heart University: "Chemical Toxicities and Health Hazards in the Laboratory"

11. June 1982: Virginia Military Institute: "Curriculum for Analytical Chemistry"

12. May 1980: WCSU: "Health Hazards in Academic Laboratories"

13. Four presentations at various Northeast Association of Academic Analytical Chemists meetings (1980, 1981, 1982)

14. March 1976: St. Joseph's College: Connecticut Science Teachers Association "Time-sharing in the Analytical Chemistry Laboratory"

15. June 1975: SUNY Albany: Northeast Regional Meeting of the American Chemical Society "Analytical Chemistry Laboratory Experiments Involving the Computer"

16. June 1974: RPI: International Union for Pure and Applied Chemistry "Computer-based experiments in the Undergraduate Chemistry Curriculum"

Professional Society Memberships

American Chemical Society (Southwestern Connecticut, Westchester County and national) Analytical, Chromatography, and Computer Divisions of the ACS
Sigma Xi Research Society
Phi Lambda Upsilon

Research Grants, Honors, Awards, Citations

1. Received a $3400 grant from the Connecticut State University for 1989-1990 for research concerning "Automated and Managed Atomic Absorption Determination of Calcium"

2. Acquired and implementing IDAS (Instrument Data Acquisition System) from Beckman Instruments in the analytical laboratory at Western Connecticut (worth in excess of $20,000)

3. December 1988, received a $5000 grant from the E. I. duPont de Nemours & Company to obtain instrumentation for the analytical chemistry laboratory in the Department of Chemistry at Western Connecticut State University

4. Recognized in May 23, 1988 issue of Chemical and Engineering News article for first incorporation of a commercially available laboratory information management system into the chemistry curriculum

5. Requested by Chairman and Organizer for The Symposium on the History of Electrochemistry at the international meeting of the American Chemical Society in Toronto, June, 1988, to referee papers in electrochemistry

6. Research work on laboratory information management systems referenced in the new edition of Williard, Merritt, Dean, and Settle, "Instrumental Methods of Analysis", 7th edition, 1988, Wadsworth Publishing, CA, p. 92 and 96

7. Acquired and implemented Beckman's CALS (Computer Automated Laboratory System) Lab Manager in the instrumental methods of analysis curriculum (worth about $60,000 with installation)

8. Received a $2500 grant from the Connecticut State University for 1985-1986 for research concerning "Determination of Calcium in Human Serum by Atomic Absorption Spectroscopy: Lanthanum and non-Lanthanum Matrices"

9. Acquired and implemented the Perkin-Elmer LIMS/2000 computerized laboratory database management system in the chemistry curriculum (worth about $40,000)

10. Recognized at the WCSU Faculty Honors Convocation (1982-1990)

11. Grant from the Harvard School of Public Health to attend industrial hygiene workshop on the Evaluation and Control of Occupational Health Hazards

12. NSF Faculty Fellowship to implement computers in the chemistry curriculum

13. Research work involving mercury(I) perchlorate referenced in Laitinen and Harris, "Chemical Analysis: An Advanced Text", 2nd edition, 1975, McGraw-Hill, NY, p. 377 and 381

14. NSF pre-doctoral fellowship to carry out Ph.D. research

15. duPont Teaching Award at the University of Connecticut

Miscellaneous

1. Member of the Analytical Chemistry Examination Subcommittee of the American Chemical Society; rewrote the ACS National Undergraduate Analytical Chemistry Examination (released 1988)

2. Completed work as the Analytical Chemistry Task Force Advisor to the computerized ChemLab Project at RPI

3. Assisted in authoring the Gas Chromatography Module for the Virginia Military Institute Project SIINC (a computerized compendium of instrumental methods)

4. National Science Foundation Proposal Reviewer for Analytical Chemistry research projects

5. Consultant to the Danbury Health Department

6. Attended many meetings of the Eastern Analytical Symposium, Pittsburgh Conference on Analytical Chemistry, Connecticut Valley Section of the American Association of Clinical Chemists, Chemical Safety Symposia, Northeast Regional Meetings of the American Chemical Society, Southwestern Connecticut Section of the American Chemical Society, Westchester Chemical Society of the American Chemical Society, Westchester Society of the American Chemical Society, Rocky Mountain Conference of the American Chemical Society

7. Attended chemical instrumentation workshops in gas chromatography/mass spectroscopy, X-ray fluorescence, gas, ion, and high performance liquid chromatography, flame and electrothermal atomic absorption, differential pulse polarography, fluorescence, inductively coupled argon plasma emission spectroscopy

8. Took the following courses: 1981-- Automation in the Chemistry Laboratory; Microcomputers in Chemistry; 1982-- Safety in the Chemical Laboratory; 1983-- PASCAL for Scientists; 1985-- Computer Interfacing; 1988--CALS Lab Manager; 1988--Safety Workshop

9. Invited program contributor (1) Quantum Chemistry Program Exchange (University of Indiana) (2) COMPORG-X (Illinois Institute of Technology) (3) Physical Science Program Exchange at Wolverhampton, England

10. Scorer and computer spreadsheet coordinator for the Connecticut Society of Professional Engineers-sponsored MATHCOUNTS competition for seventh and eighth graders