

## CURRICULUM VITAE

William L. Perry  
Vice Provost  
Professor of Mathematics  
Texas A&M University

### OFFICE ADDRESS

Office of the Executive Vice President and Provost  
Texas A&M University  
College Station, Texas 77843-1248

### EDUCATION

Ph.D. Mathematics, University of Illinois, Urbana-Champaign, Illinois, 1972.  
M.A. Mathematics, University of Illinois, Urbana-Champaign, Illinois, 1968.  
B.A. Mathematics and History (double major), Park College, Parkville, Missouri, 1967.

### EMPLOYMENT HISTORY

1/03 – present Vice Provost  
Texas A&M University, College Station, Texas  
Major responsibilities: Act as President in absence of President and Provost; as Provost in absence of Provost. Leadership and oversight in academic budget planning and allocation of funds to colleges, schools, and academic affairs units. Leadership and oversight in analysis of campus space needs and planning of the built environment to meet University academic and other faculty needs. Texas A&M University Press, Institutional Studies and Planning.

4/98 – 12/02 Executive Associate Provost  
Texas A&M University, College Station, Texas  
Major responsibilities: Act as Provost in absence of Provost; budgeting, planning and facilities allocation for academic affairs; university libraries; admissions and records; Texas A&M University Press; Institutional Studies and Planning; Measurement and Research Services; Women's Center.

9/90 - 3/98 Dean of Faculties and Associate Provost  
Texas A&M University, College Station, Texas  
Major responsibilities: Faculty hiring, promotion and tenure; faculty development; university libraries; Texas A&M University Press; faculty ombudsperson; faculty advocacy and advocacy for underrepresented faculty groups; Center for Teaching Excellence; partner placement; administrator evaluation.

1/88 - 8/90 Associate Dean for Academic Affairs, College of Science

Texas A&M University, College Station, Texas  
Major responsibilities: Academic programs, graduate programs, and access programs for the College of Science.

- 9/87 - present      Professor, Department of Mathematics  
Texas A&M University, College Station, Texas
- 9/77 - 8/81      Associate Head, Department of Mathematics  
Texas A&M University, College Station, Texas
- 9/77 - 8/87      Associate Professor, Department of Mathematics  
Texas A&M University, College Station, Texas
- 9/71 - 8/77      Assistant Professor, Department of Mathematics  
Texas A&M University, College Station, Texas

### **HONORS AND AWARDS**

- AMOCO Foundation Award for Distinguished Teaching, University level. Texas A&M University, May, 1979.
- Association of Former Students Distinguished Teaching Award, College level. College of Science, Texas A&M University, September, 1984.
- Enhancing Diversity Award, Administration. Texas A&M University, April, 1996.
- Fish Camp Namesake, 1997.
- Women's Week Award, Outstanding Administrator, Texas A&M University, 1998.
- Association of Former Students Faculty Distinguished Achievement Award, Administration. Texas A&M University, May, 1999.
- Distinguished Alumnus, Park College, Parkville, Missouri, June, 1999.

### **PUBLICATIONS**

#### **I. PAPERS**

1. W. L. Perry, "Finite Mellin Convolution Equations," SIAM Journal of Math. Analysis, 4 (1973), pp. 238-244.
2. W. L. Perry, "Inversion of General Integral Transforms," SIAM Journal of Math. Analysis, 5 (1974), pp. 764-773.
3. W. L. Perry, "On the Bojarski-Lewis Inverse Scattering Method," IEEE Transactions on Antennas and Propagation, AP 22 (1974), pp. 826-829.
4. C. D. Luning and W. L. Perry, "On the Density of the Breit-Wigner Functions," Journal of Mathematical Physics, 16 (1975), pp. 1569-1572.
5. C. D. Luning and W. L. Perry, "Iterative Solution of Hartree's Equations," Journal of Mathematical Physics, 17 (1976), pp. 1156-1159.
6. W. L. Perry, "Approximate Solution of Inverse Problems with Piecewise Continuous Solutions," Radio Science, Oct. 1977, pp. 637-642.

7. C. D. Luning and W. L. Perry, "An Iterative Technique for Solution of the Thomas-Fermi Equation Utilizing a Nonlinear Eigenvalue Problem," *Quarterly of Applied Mathematics*, 35 (July, 1977), pp. 257-268.
8. W. L. Perry, "The Limited Aperture Problem," *Proceedings of the Ninth Annual Modeling and Simulation Conference*, Inst. Soc. Amer., Pittsburgh (1978), pp. 885-892.
9. C. D. Luning and W. L. Perry, "Implementation of an Iterative Technique for the Solution of Generalized Emden-Fowler Equations," *Codes for Boundary Value Problems in ODES*, Springer Lecture Notes in Computer Science 76, (1979), pp. 319-324.
10. C. D. Luning and W. L. Perry, "Positive Solutions of Superlinear Eigenvalue Problems via a Monotone Iterative Technique," *Journal of Differential Equations*, 33 (1979), pp. 359-367.
11. R. Flagg, C. D. Luning, and W. L. Perry, "Implementation of New Iterative Techniques for Solutions of Thomas-Fermi and Emden-Fowler Equations," *Journal of Computational Physics*, 38 (1980), pp. 396-405.
12. C. D. Luning and W. L. Perry, "Positive Solutions of Negative Exponent Generalized Emden-Fowler Equations," *SIAM Journal on Mathematical Analysis*, 12 (1981), pp. 874-879.
13. C. D. Luning and W. L. Perry, "On the Convergence of Berryman's Iteration Scheme," *J. of Mathematical Physics*, 22 (1981), pp. 1591-1595.
14. W. L. Perry, "A Bifurcation Problem in First Semester Calculus," *College Mathematics Journal*, 14 (1983), pp. 57-60.
15. W. L. Perry, "Constructive Existence of Solution to a Nonlinear Eigenvalue Problem with Application to  $n$ th Order Reaction Diffusion Problems" in *Trends in Theory and Practice of Nonlinear Differential Equations*, (Ed. V. Lakshmikantham), Marcel Dekker, New York, 1984, pp. 477-482.
16. C. D. Luning and W. L. Perry, "Iterative Solution of a Nonlinear Boundary Value Problem for a Rotating String," *International Journal of Nonlinear Mechanics*, 19 (1984), pp. 83-92.
17. C. D. Luning and W. L. Perry, "An Iterative Method for Solution of a Boundary Value Problem in a Non-Newtonian Fluid Flow," *Journal of Non-Newtonian Fluid Mechanics*, 15 (1984), pp. 145-154.
18. S. Lieb, W. Perry, J. Bevan, "Theoretical Development of a Gaussian Potential Function in the Description of the Radial Portion of Isotropic Bending Vibrations," *Journal of Computational Chemistry*, 5 (1984), pp. 115-121.
19. C. D. Luning and W. L. Perry, "Shape Functions in Cross-Field Diffusion Problems for Multipole Plasmas," *Journal of Mathematical Physics*, 25 (1984), pp. 2374-2376.
20. W. L. Perry, "A Monotone Iterative Technique for Solution of  $p$ th order reaction diffusion problem  $p < 0$ ," *Journal of Computational Chemistry*, 5 (1984), pp. 353-357.

21. C. D. Luning and W. L. Perry, "Constructive Existence of Solution for Negative Exponent Generalized Emden-Fowler Nodal Problems," in *Trends in the Theory and Practice of Nonlinear Analysis* (Ed. V. Lakshmikantham) North "Holland, Amsterdam, 1985, pp. 295-300.
22. C. D. Luning and W. L. Perry, "A Monotone Iterative Method for Singular Emden-Fowler Equations," *International Journal for Mathematics and Mathematical Sciences*, 13 (1990), pp. 159-164.
23. W. L. Perry and S. S. P. Shen, "An Example of Nonlinear Toxic Mass Spreading," *Applied Scientific Research*, 47 (1990), pp. 323-339.
24. I. J. Bakelman and W. L. Perry, "Geometric Inequalities and Estimates of Solutions for Nonlinear Euler-Lagrange Equations and Applied Problems", in *Geometric Analysis and Nonlinear Partial Differential Equations* (Ed. I. Bakelman), Marcel Dekker, New York, 1993, pp. 3-52.

## II. BOOKS

1. *Elements of Calculus*, with D. Allen and C. Chui. Brooks/Cole Publishing Co., 1983, 425 pages. Second Edition: 1989, 534 pages.
2. *The T.A.'s Handbook: A Guide to Teaching Calculus*, with D. Jewett. Saunders College Publishing, 1985, 55 pages. Second Edition (with J. Schielack): 1987.
3. *Elementary Linear Algebra*, McGraw-Hill, 1988, 495 pages.
4. *Algebra Lineal con Aplicaciones*, McGraw-Hill, 1990, 542 pages (Translation by Carlos Manuel Sánchez Trujillo).

## GRANTS AND CONTRACTS

1. Research analyst for Aerospace Research Laboratories, Wright Patterson Air Force Base, Dayton, Ohio. June 1 through August 31, 1972. Contract number F33615-71-C-1463 administered through Technology Incorporated, Dayton, Ohio.
2. Texas A&M University College of Science research grant. One and one half months, summer 1973.
3. "Optimal Scheduling of Radiotherapy for Solid Tumors". Institutional National Institutes of Health grant to Texas A&M. July 1, 1976 - March 31, 1977.
4. "Mathematical Analysis of Borehole Cooling." Center for Energy and Mineral Resources, TAMU. Co-principal investigator. January 15, 1980 to August 31, 1980.

5. A Comparison of microcomputer CAI to mainframe-terminal based CAI. Incentive grant from the Texas A&M Center for Teaching Excellence. July, 1984.
6. "Splines and Approximate Inversion of Laplace Transforms in Analytical Reservoir Analysis." Center for Energy and Mineral Resources, TAMU. September 1985 to August 1986.
7. "Reservoir Engineering and Treatment Design Technology." Faculty investigator on contract with Gas Research Institute (\$705,802). 12/1/86 to 12/31/89.
8. Academic study leave grant, Texas A&M University, 1/87 - 5/87. Leave taken at Department of Mathematics, University of Illinois, Urbana, Illinois.
9. TAMUPREP, a regional pre-freshman engineering program for 7th and 8th graders, targeting women and minorities. U.S. Department of Energy (\$14,000), principal investigator. 4/1/89 - 3/31/90.
10. Research Careers for Minority Scholars initiative. National Science Foundation (\$435,000). Co-principal investigator. 10/1/89 - 9/30/93.
11. TAMUPREP, a regional pre-freshman engineering program for 7th and 8th graders, targeting women and minorities. Dow Chemical Company Foundation (\$36,000), principal investigator. 1/1/90 - 12/30/92.
12. TAMUPREP, a regional pre-freshman engineering program for 7th and 8th graders, targeting women and minorities. U.S. Department of Energy (\$14,000), principal investigator. 4/1/90 - 3/31/91.
13. "Texas Institutes for High School Science Teachers." Texas Higher Education Coordinating Board and the Woodrow Wilson National Fellowship Foundation (\$128,660), principal investigator. 9/90 - 11/91.
14. Alliances for Minority Participation initiative. National Science Foundation (\$4,800,000). Co-principal investigator. 10/91 - 9/96.

## TEACHING & EDUCATIONAL ACTIVITIES

### 1. Courses

Experience in teaching a full range of undergraduate and graduate mathematics courses as well as honors applied mathematics. Design and teaching of departmental course for graduate teaching assistants. Most recent course taught: Matrix Analysis, Graduate, Fall 2006.

### 2. Supervision of graduate students

Eleven master's degree students in Mathematics, Chair of committee.

Eight master's degree students in Mathematics, committee member.

Other graduate student committees: 70 master's degree committees in engineering, geosciences and science as outside member.

26 Ph.D. committees in engineering and geosciences and economics as outside member.

3. Curriculum

Design and implementation of Applied Mathematical Sciences Major. Design and implementation of Junior level mathematics sequence for physics and geophysics majors. Design and implementation of first year graduate engineering mathematics sequence.

4. University activities

Co-director, Minority Scholars Program, 1989-1990.

Project director of TAMUPREP, a regional pre-freshman engineering program for 7<sup>th</sup> and 8<sup>th</sup> graders, targeting females and minorities, 1989-1990.

5. College Activities

Co-director, PAAPREP, a minority retention program in the College of Science, 1988 to 1990.

Site coordinator, Woodrow Wilson National Fellowship Foundation Institute in Chemistry, 1989.

**DEVELOPMENT**

- Endowments for Texas A&M University Professorships in Undergraduate Teaching Excellence (solicitations) (11 at \$150,000 each).
- Texas A&M University Center for Teaching Excellence Gift (solicitation) (\$500,000)
- Texas A&M University Montague Scholars Endowment (solicitation) (\$250,000)
- Memorial Student Center Opera and Performing Arts Society 30<sup>th</sup> Anniversary Endowment Campaign (campaign chair; solicitations) (\$1,000,000+)
- Member, Planning Committee for Texas A&M University *One Spirit One Vision* Campaign
- Texas A&M University *One Spirit One Vision* Campaign, Texas A&M University Faculty Staff Campaign (campaign chair; solicitations) (\$10,000,000+)

**SERVICE, ADMINISTRATIVE AND OTHER**

1. Referee for papers in various mathematics and applied mathematics journals.
2. Presentations of numerous contributed and invited mathematics papers

3. Selected Committee Service:

(a) University System, State or External:

Program Committee, Southern Association of Colleges and Schools Annual Meeting, 1993.  
Advisory Committee on Faculty Workload Goals, Texas Higher Education Coordinating Board, 1998.

Executive Committee, The University Center, The Woodlands, Texas, 1998-2004.

Committee on Treatment of Intellectual Property Associated with Technology-Mediated Instruction (co-chair with Dr. Flavius Killebrew), Texas A&M University System, 1998-1999.

University Formula Advisory Committee, Texas Higher Education Coordinating Board, 2001-2006.

Chair, Instruction and Operations Study Committee, 2005-2006

On and Off Site Accreditation Reaffirmation Committees, Southern Association of Colleges and Schools, 2004, 2005

(b) University Committees and Councils:

Academic Council, 1978-1980, 1981-1984.

University Academic Appeals Panel, 1980-1987, (Chair 1981-1985).

Accreditation Self Study Standard V (faculty) 1981-1982.

Committee on Academic Freedom, Responsibility and Tenure, 1981-1982.

Faculty Senate, Charter Member, 1983-1985 (ex officio 1990-1998).

Faculty Development Leave Committee (chair), 1990-1998.

Academic Program Council, 1990-present.

Liberal Arts Dean Search Committee (chair), 1992.

Post Tenure Review Task Force, (co-chair), 1996.

Academic Convocation Committee (co-chair), 1997-2004.

Vision 2020 Campus Academic Oversight Committee, 1998.

Campus Facilities Planning Committee, 1998-present.

Undergraduate Admissions Advisory Committee (chair), 1998-2003.

One Spirit One Vision Campaign Planning Committee 1999-2002.

Campus Community Campaign Steering Committee (chair), 2002-2004.

Library Dean Search Committee (chair), 2004.

Council on the Built Environment (chair), 2002-present.

Dean of Undergraduate Programs Search Committee (chair) 2006

(c) College Committees & Councils:

Faculty Advisory Council, College of Science, 1975-1981, (Chair 1978-1980).

Graduate Instruction Committee of the College of Engineering, 1978-1981.

College of Science Executive Committee, 1988-1990.

(d) Departmental Committees:

Executive Committee, 1975-1979.

Promotion and Tenure Committee, 1977-1980.

Faculty Evaluation Committee, 1978-1980.

Teaching Evaluation Committee, 1981-1987, (Chair 1984-1987).

Division Head, Applied Mathematics Division, 1987-88.

## **SOCIETY MEMBERSHIPS**

American Mathematical Society  
Phi Alpha Theta (Honorary)  
Pi Gamma Mu (Honorary)  
Phi Kappa Phi (Honorary)

## **COMMUNITY SERVICE**

### **United Way of Brazos Valley:**

Texas A&M University Drive Chair 1994.  
Vice President, President-Elect, President, Past President of United Way of Brazos Valley, 1995-99.

### **Brazos Valley Rehabilitation Center:**

Board of Directors, 1998-2004.  
Vice Chairman, 1998-99. Chairman-elect, 1999-00. Chairman, 2000-01.  
Brazos Valley Rehabilitation Center Foundation, 2001-present.  
Chairman, 2001-2006

### **Easter Seals East Texas, Inc. Board of Directors:**

Secretary, 2002.

### **Memorial Student Center Opera and Performing Arts Society:**

Board Member, 1998-2004.  
Chair of Endowment Feasibility Oversight Committee, 1998.  
Chair of Endowment Committee 2000-2005  
President-elect 2001-02.  
President 2002-03.

### **Arts Council of Brazos Valley**

Board Member, 1998-2001.  
Chair of Executive Director Search Committee, 2006

City of College Station: Committee on the Fraternal Partnership between the cities of College Station, Texas and Ciudad Real, Spain, 2004-present.

Boys Club volunteer, 1971-81.

Elder and Deacon, First Presbyterian Church, Bryan, Texas.

Youth sports coaching: baseball, basketball and soccer, 1987-96.