Curriculum Vitae
William Ray
Spring 2015

Professional Positions

- 2007-present: Associate Vice President for Academic Affairs, OU-Tulsa
- 2004-present: Vice Provost, OU-Tulsa, and Dean, OU-Tulsa Graduate College
- 1998-present: Dean, OU-Tulsa Graduate College, The University of Oklahoma
- 1996-1998: Interim Dean, Graduate Office in Tulsa, The University of Oklahoma
- 1990-1998: Associate Dean, Graduate College, The University of Oklahoma
- 1988-1990: Assistant Dean, Graduate College, The University of Oklahoma
- 1986-1988: Associate Chairman, Department of Mathematics, The University of Oklahoma
- 2008-present: Associate Professor, Electrical and Computer Engineering, The University of Oklahoma
- 1984-present: Associate Professor, Mathematics, The University of Oklahoma
- 1980-1984: Assistant Professor, Mathematics, The University of Oklahoma
- 1978-1980: Instructor, Mathematics, Iowa State University
- Spring 1978: Instructor, Mathematics, The University of Iowa

Education

- Ph.D., 1978, Mathematics, The University of Iowa, Iowa City, Iowa
- M.S., 1976, Statistics, The University of Iowa, Iowa City, Iowa
- M.S., 1974, Mathematics, The University of Iowa, Iowa City, Iowa
- B.A., 1972, (with distinction), Mathematics and Economics, The University of Iowa, Iowa City, Iowa

Representative Duties, Vice Provost and Dean, The University of Oklahoma – Tulsa

- Chief academic officer for OU-Tulsa under the joint direction of the President of OU-Tulsa and the Provost for the main campus in Norman. Duties include working closely with the OU-Tulsa President on strategic planning and fund raising; representing the academic programs and the institution to the community, Regents and legistlature; overseeing institutional support for instruction and scholarship on the Tulsa campus; managing the academic and instructional budgets; administering student academic matters; coordinating research administration with the Norman Campus; assisting department chairs and deans with program assessment and development; working with academic deans and department chairs to recruit and retain faculty; and assisting academic units with faculty assessments.

- *Ex officio* member of the OU-Tulsa Campus Master Planning and Space Committee which has authority over facilities assignment, utilization and planning.

- *Ex officio* co-chair of the OU-Tulsa Strategic Planning Committee which developed a five year strategic plan for the campus.

- Budget planning, forecasting, and daily decisions for the Tulsa academic and instructional budget of $5.6 million.

- *Ex officio* member of Graduate Council; chair of the Graduate Council in the absence of the Norman Campus Graduate Dean; identify strategic initiatives and policies for consideration by the Council; chair academic appeals and misconduct cases brought before the Council.

- Coordinate and plan OU-Tulsa efforts student retention and recruiting activities.
- Administer all aspects of admission, retention and graduation policies for all graduate students in Tulsa. Coordinate the adminisration of policies, procedures, and data management with the Norman Graduate College.
- Assist academic units having programs in Tulsa with program review, revision, and implementation.
- In collaboration with the Norman Campus Graduate Dean approve graduate faculty appointments; approve departmental criteria for membership on the Graduate Faculty.
- Coordinate with Information Technology staff on the planning and implemention of technology at OU-Tulsa, including networks, distance classrooms, computer labs, student support and faculty support.
- Other duties as assigned by the Norman Campus Provost and the President of OU-Tulsa.

Professional and University Service

- Consultant/Evaluator for the Higher Learning Commission, 2009-present.
- Member, Search Committee for J. L. Norman Chair in Gaming, Rogers State University, 2005 and 2006.
- Member, Search Committee for Sarkeys Chair in Information Technology, Rogers State Universty, 2006.
- Member, task force on the redesign of The University of Oklahoma web presence, 2006.
- Chair, task force on learning center construction project, 2006.
- Member, Task Force on Course Management Systems, 2005. This task force had oversight over the selection and subsequent implementation of Desire2Learn as the new course management software on the Norman and Tulsa campuses.
- Member, search committee for chief fiscal officer, OU-Tulsa, 2005.
- Member, search committee for Director of Information Technology, OU-Tulsa, 2004.
- Member, search committee for Director of Student Affairs, OU-Tulsa, 2003.
- Member, Search Committee for the OU Vice President for Research, 1998.
- Member of the Norman Campus Departmental Review Panel, 1995-1999.
- Member, Enrollment Management Board, 1987-1998. In addition I was in charge of enrollment management for graduate programs, 1988-1998. During my tenure, minority participation in graduate education increased over threefold.
- *Ex officio* member of the The University of Oklahoma Research Council, 1988-1998.
- Member, Institutional Review Board, The University of Oklahoma, 1995-1997.
- Member, task force on replacing the mainframe computer, The University of Oklahoma, 1995.
- Member, Search Committee for Director of University Computing Services, The University of Oklahoma, 1995.
- Regional Coordinator, The Alliance (the national organization for Patricia Roberts Harris Project Directors), 1993-1997.
- Member, Task Force on the Americans with Disabilities Act, The University of Oklahoma, 1993.
- Chair, Resolutions Committee, Midwestern Association of Graduate Schools, 1993-1997.
- Member, Oklahoma Parallel Processing Facility Advisory Committee, 1989-1998.
- Member, Advisory Committee for the Writing Center, 1992-1997.
- Member, President's Computing Advisory Committee, The University of Oklahoma, 1988-1994.
- Secretary, Sigma Xi Chapter, The University of Oklahoma, 1988.
- Member, NSF Review Panel for Curriculum Development in Calculus, 1988.
- Member, University of Oklahoma Committee on Graduate Teaching Assistant Training, 1987-1988.
- Member, The University of Oklahoma Organizing Committee for the National Consortiaum for

Degrees for Minorities conference, 1988.

- Faculty Senator representing the College of Arts and Sciences, 1987-88 (resigned upon being named Assistant Dean of the Graduate College).
- Member, NSF review panel for EPSCoR Program, Fall, 1985.
- Chair, College of Arts and Sciences Research Committee, 1985-86.
- Chair, Department of Mathematics Undergraduate Committee, 1985-86.
- Chair, Department of Mathematics Graduate Committee, 1985-86.
- Chair, Department of Mathematics Computing Advisory Committee, 1984-86.
- Chair, Department of Mathematics Library Committee, 1983-84.
- Reviewer for NSF, Mathematics, Modern Analysis, 1980-present.
- Reviewer for Math Reviews, 1984-present; referee for numerous mathematics journals.
- Organized special session in Nonlinear Analysis at Regional Meeting of the American Mathematical Society in Norman, OK, Spring 1982.
- Member, University of Oklahoma Serials Review Committee, 1983-84.
- Member, Department of Mathematics Hiring Committee, 1982-1988.
- Member, Department of Mathematics Undergraduate Committee, 1981-83, 86-1988.
- Member, Department of Mathematics Computing Advisory Committee, 1986-1988.
- Member, Department of Mathematics Library Committee, 1981-83.
- Member, Department of Mathematics Applied Mathematics Committee, 1980-81.
- Member, University of Oklahoma Sigma Xi Council, 1985-1988.
- Member, Mathematical Association of American, Society of Industrial and Applied Mathematicians, Phi Beta Kappa, Sigma Xi.
- Continuing regular responsibilities in graduate instruction in the Department of Mathematics and in the Department of Human Relations.

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Administrative Responsiblities Prior to Current Position

- Project Director and author for The University of Oklahoma's Patricia Robert's Harris Fellowship Program funded by the US Department of Education, 1988-1997. During this program's final year of existence, OU received over $1.2 million in funding for 19 new minority fellows. OU funding under this program grew from three minority fellowships in 1988 to over 25 under my leadership. During the last five years of operation, The University of Oklahoma proposal consistently ranked in the top five nationally.
- Responsible for planning, management and operation of the Norman Campus Graduate College's tuition waiver program 1988-1998. This program grew from annual funding of $67,000 to over $3.6 million under my leadership.
- Oversaw research support for doctoral students, including dissertation grants, travel grants, and equipment grants, 1988-1998.
- Director, The University of Oklahoma Regents' Post-Doctoral Fellowship Program, 1988-1998.
- The University of Oklahoma liaison with Western Name Exchange, 1988-1998.
- The University of Oklahoma representative to Big Eight Graduate Minority Affairs Council, 1988-1998.
- Director of Graduate Studies, Department of Mathematics, 1986-1988.
- System Manager, Department of Mathematics VAX Computer System, 1986-1988. (Selected, installed and managed the system that was funded under an NSF grant for research instrumentation (see next item); system management duties were included in responsibilities as Project Director and as Associate Chair.)
- Project Director and author, The University of Oklahoma Department of Mathematics Grant for Computing Equipment from the National Science Foundation, 1986-88 ($20,000 grant leveraged to over

$200,000).

Publications

1. Isometries on the Cartesian Product of n Unit Open Hilbert Balls with a Hyperbolic Metric, (with T. Kuczumow), *Annali di Matematica pura ed applicata* (VI), (1988) vol. CLII, pp. 359-374.

2. Perturbations of normally solvable nonlinear operators I (with A. Walker), *Intl. J. Math.*, 8 (1985), no. 2, 241-246.

3. A rapidly convergent iteration method and Gateaux differentiable operators, *Jour. of Math. Anal. Appl.* 103 (1984), 162-171.

4. Some remarks on the Leray-Schaudar boundary condition, (with W.J. Cramer), *Bull. Acad. Pol. Sci.* 29 (1984), 591-595.

5. Convex Clarkson inequalities with applications to nonlinear operators, *Revista Mat. Univ. Parma* (4) 10 (1984), pp. 79-84.

6. Renorming and the theory of phi-accretive set valued mappings (with D. Downing), *Pacific J. Math.* 106 (1983), 73-85.

7. Fixed points and the geometry of nonexpansive mappings in Banach spaces (with T.E. Williamson), *Houston J. Math.* 8 (1982), 409-420.

8. Mapping theorems for Gateaux differentiable and accretive operators, (with A. Walker), *JNA-TMA* 6 (1982), 423-433.

9. Phi-accretive operators and Ekeland's theorem, *J. Math. Anal. Appl.* 88 (1982), 566-571.

10. Some remarks on set-valued mappings, (with D. Downing), *JNA-TMA* 5 (1982), 1367-1377.

11. A survey of the theory of Normally Solvable Operators, Annual Winter Meeting of the AMS, Cincinnati, 1982 (published in Vol. 18 of *Contemporary Math*, 155-165).

12. Solvability of nonlinear operator equations, (with W.J. Cramer), *Pacific J. Math.* 95 (1981), 35-40.

13. Nonexpansive mappings with precompact orbits, (with R.C. Sine), *Proc. of Conf. on Fixed Point Theory*, University of Sherbrooke July 1980.

14. Uniformly Lipschitzian semigroups in Hilbert space, (with D. Downing), *Canad. Math. Bull.* 25 (1982), 210-214.

15. Mapping theorems for differentiable operators, (with I. Rosenholz), *Bull. Acad. Pol. Sci* 29 (1981), 265-273.

16. The fixed-point property and unbounded sets of Hilbert space, *Trans. Amer. Math. Soc.* 258 (1980), 531-537.

17. An elementary proof of surjectivity for a class of accretive operators, *Proc. Amer. Math. Soc.* 75 (1979), 255-258.

18. Zeros of accretive operators defined on unbounded sets, *Houston J. Math.* 5 (1979), 133-139.

19. Nonexpansive mappings on unbounded convex domains, *Bull. Acad. Pol. Sci. ser Math. Astr. et Phys.* 26 (1979) 241-245.

20. A note on Lipschitzian mappings on convex metric spaces, (with W.A. Kirk), *Canad. Math. Bull.* 20 (1977), 463-466.

21. A remark on directional contractions, (with W.A. Kirk), *Proc. Amer. Math. Soc.* 66 (1977), 279-183.

22. Fixed point theorems for mappings defined on unbounded sets in Banach spaces, (with W.A. Kirk), *Studia Math.* 64 (1978), 127-138.

Textbooks

- *Real Analysis* published in 1987 by Prentice-Hall.
- *Research Methods in Human Relations*, 1993-2003, Advanced Programs, The University of Oklahoma.
- *Probability and Stochastic Processes for Engineers*, in process.

Invited Presentations

- Oklahoma Project Management Symposium, Keynote Address, Fall 2007
- Western Michigan University, Colloquium, Spring 1993.
- Council of Graduate Schools, Annual Meeting, Fall 1990.
- Council of Graduate Schools, Annual Meeting, Fall 1989.
- National Academy of Sciences, National Chair's Meeting, Fall 1988.
- Brigham Young University, Colloquium, Fall 1986.
- Texas Partial Differential Equations Conference, Fall 1986.
- Texas Partial Differential Equations Conference, Fall 1985.
- AMS Symposium on Non-linear Operators, Summer 1983.
- Texas PDE Conference, Fall 1983.
- Oakland University, Colloquium, Spring 1982.
- American Mathematical Society, National Meeting, January 1982.
- Cameron University, Colloquium, Fall 1981.
- Pan American University, Colloquium, Spring 1980.
- The University of Oklahoma, Colloquium, Spring 1980.
- Iowa State University, Colloquium, Spring 1978.

Community Activities

- Oklahoma Educators Leadership Academy, 2005-2006
- Member, Mayor's Task Force on the Arts, 2002-present
- Leadership Tulsa, 1999-2000
- Tulsa Human Rights Commission, 1999-2001
  Assisted the Commission with various research and community outreach activities.
- State Certified HIV counselor/tester, 1994-1998
  Volunteered one night per week at a United Way clinic as an HIV tester and counselor, 1994-1998
- US Navy Reserve, LT, 1980-1982
- Iowa Army National Guard, SFC, 1972-1980