C. Ray Rosentrater
Curriculum Vita

I. Personal

C. Ray Rosentrater,

Developed networking proposal.

1991-1994 Academic Senate Executive Committee.

1991-1995 Chair, Department of Mathematics and Computer Science.

Coordinated a curriculum revision and the writing of a mathematics subject matter preparation program proposal for the California Commission of Teacher Credentialing.

1991-1995 Academic Senate.

1996-1997 Faculty Salary and Benefits Committee.

Developed revised salary schedule.

1997-1999 Facu

(with Jim Gleason) “The Mosaic and Principal Function of a Subnormal Operator.” *Integral Equations and Operator Theory*, **55** (2006), 69-82.

“Another Stick-Breaking Game: Problem 11089.” *The American Mathematical Monthly*, **113** (2006), 571-572.

“The Sample Correlation Coefficient from a Linear Algebra Perspective.” *The College Mathematics Journal*, **36** (2006), 47-50.

(with Jim Gleason) “Xia’s Analytic Model of a subnormal Operator and its Applications.” *Rocky Mountain Journal of Mathematics*, **38** (2008).

“Representational Efficiency.” *Mathematics Magazine*, **84** (2011), 185-195.

(with Kim Jongerius) “Infinity.” *Mathematics Through the Eyes of Faith.* Ed. James Bradley and Russell Howell, 2011. 37-63.

(with Kim Jongerius) “Dimension.” *Mathematics Through the Eyes of Faith.* Ed. James Bradley and Russell Howell, 2011. 64-92.

Varieties of Integration. Mathematical Association of America, Dolciani Series #51. (2015).

<u>In Progress:</u>

“Faking It.” (Submitted to *Mathematics Magazine*)

“Non-reversing Euler Double Paths.” In preparation.

VI. Professional and related Activities

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"Efficiency of Real Number Representation."
Mathematics-Computer Science Colloquium, California Lutheran University, 1992

"Panel on Computer Science: The New ACM Curriculum."
ACMS biannual conference, 1993.

“Connecting Linear Algebra Concepts.”
Joint Mathematics Meetings, 2011.

“A Geometry-first Introduction to Determinants.”
Joint Mathematics Meetings, 2013.

“An IBL-Influenced Approach to Linear Algebra.”
Joint Mathematics Meetings, 2015.

“Bicycle Routes and Euler-Double-Paths.”
Joint Mathematics Meetings, 2016.

Supervision of Student Research

Machine Learning, students Manny Reyes and Justin Marks, 2004.

Amateur Political Candidates, student Austin Zuidema, 2015.

Curriculum:

Created several workbooks containing group exercises in Logic, Sets, Numeration systems and associated algorithms, Probability, Statistics, and Geometry for the Fundamentals of Mathematics courses. These courses are designed to provide prospective elementary education teachers with a mature understanding of the mathematical topics which appear in the elementary school curriculum.

“Finite Mathematics: Tools for Decision Making.” (Textbook)

Other Activities:

Regular attendance at local and national professional meetings.

Submission of solutions to *Mathematical Monthly*, and *Mathematics Magazine* problems.

Periodic coach of the Westmont College Putnam Competition Team.

Computing consultant to Financial Planning Services, Santa Barbara, 1981-1982.

Curriculum consultant to CompuCamp, 1983.

Reviewer for Wiley, *Elementary Linear Algebra (5th Ed.)* by Howard Anton, 1990.

Reviewer for Houghton Mifflin, *Applied Finite Mathematics*, by Alan Hoenig, 1992

Statistical consultant to Scott Wentz. *Using impedance to estimate percentage of body fat*. 1992-1993

Reviewer for West Publishing, Prospectus for CS-1/CS-2 text based on C++, Spring, 1994.

Reviewer for West Publishing, *Programming and Problem Solving with C++*, Fall, 1994.

Statistical consultant, Bruce Hull, *Assessing real estate values from tax roll value*s, 1995 –

Ministerial Education and Guidance Board, Free Methodist Church, Southern California Conference, 2006-present.