

Vita for  
**Dr. Kemble Yates**

Educational History

B.S. Mathematics and Economics	University of Puget Sound	1982
M.S. Mathematics	Washington State University	1984
Ph.D. Mathematics (specialty area: mathematical modeling)	Washington State University	1987

Employment History

Graduate Teaching Assistant	Washington State University	1982-1987
Assistant Professor	Southern Oregon State College	1987-1992
Associate Professor	Southern Oregon State College	1992-1999
Professor	Southern Oregon University	1999-present

Courses taught

College Algebra	Precalculus	Elementary Statistics
Probability	Discrete Math	Calculus I-IV
Linear Algebra	Differential Equations	Numerical Analysis
Numerical Linear Algebra	Infinite Series	Numerical Diff.
Equations	Mathematical Modeling	Optimization
Topology	Philosophy & History of Science	
Mathematical Perspectives (history)		

Publications

- 1994 "Meshing Meaningful Student Projects into a Fairly Traditional Calculus Course," *Proceedings of the International Conference on Technology in Collegiate Mathematics*, web address: [archives.math.utk.edu/ICTCM](http://archives.math.utk.edu/ICTCM)
- 1992 "The Effect of Suspended Particles on Jean's Criterion for Gravitational Instability", *Mathl. Comput. Modelling*, V 16, N10.
- 1989 "A Cascading Development Model for Amphibian Embryos", *Bull. Math. Biol.*, V 51, N5.
- 1987 "A Cascading Development Model for Amphibian Embryos", Ph.D. dissertation, WSU..

## Consulting

- 2004-06 Legal expert witness for Brown, Hughes, Bird, Rote, Wetmore & Brouhard (Grants Pass, OR) on statistical analysis for age discrimination suit.
- 2005-06 Legal expert witness for Fontana and Takaro (Portland, OR) on statistical analysis for age discrimination suit.
- 1999 Statistical analysis for Dr. Don Sanders, Illinois, on data from ophthalmological research
- 1996 Legal expert witness for firm of Pozzi, Wilson, and Atchison (Portland, OR) on probabilities connected to an age discrimination suit.
- 1996 Consulting for Four Seasons Country Properties (Cave Junction) on spreadsheet formulas for normalizing data.
- 1994-96 Consulting for Retzlaff Power Analysis (Medford) on calculation needed within software program for guiding eye surgery.
- 1988-90 Consulting for Met-One Corporation (Grants Pass) on computation of energy integral.

## Talks Delivered

- 2006 "A Star is Born", Invited Colloquium, Sonoma State University, Rohnert Park, CA.
- 2002 "Senior Capstones: Meaningful Closure to the Undergraduate Experience", Minicourse with Dusty Sabo, Pacific Northwest section of Mathematical Association of America, Portland, OR.
- 2000 "The Effect of Suspended Particles on Jean's Criterion for Gravitational Instability", University of Oregon, Eugene, OR.
- 2000 "Infusing Group Projects into Mathematics Courses," Lilly-West Conference on College and University Teaching," Lake Arrowhead, CA.
- 1999 "The Cosmic Ruler: How Astronomers Use Mathematics to Measure the Universe," State of Jefferson Mathematics Congress, Whiskeytown Lake, CA.
- 1998 "The Cosmic Ruler: How Astronomers Use Mathematics to Measure the Universe," to the Southern Oregon Skywatchers, Medford, OR.
- 1998 "Mathematical Modeling Throughout the Curriculum," Symposium on Mathematical Modeling in the Undergraduate Curriculum, La Crosse, WI.

- 1997 "A Star is Born," Friday Science Seminar, Southern Oregon University, Ashland, OR.
- 1996 "A Star is Born," Humboldt State University Mathematics Seminar, Arcata, CA.
- 1995 "A Star is Born," to the Southern Oregon Skywatchers, Medford, OR.
- 1994 "Meshing Meaningful Student Projects into a Fairly Traditional Calculus Course," International Conference on Technology in Collegiate Mathematics, Orlando, FL.
- 1991 "Effect of Suspended Particles on Jean's Criterion for Gravitational Instability," State of Jefferson Mathematics Congress, Whiskeytown Lake, CA.
- 1990 "A Cascading Development Model for Amphibian Embryos," Society of Industrial and Applied Mathematics (SIAM) National Meeting, Chicago, IL.

Other professional experiences

- 2003-present Chair of SOU Math Department
- 2003-present SOU representative to Association of Oregon Faculties.
- 1998 President of Interinstitutional Faculty Senate, Oregon University System.
- 1996-99 Senator, Interinstitutional Faculty Senate, Oregon University System.
- 1996-present Co-Director of State of Jefferson Mathematical Congress
- 1996-97 Advisor for Victoria Pashova's Honors in Mathematics thesis: "Mathematically Modeling the HIV Infection in the Human Body."
- 1989-present APSOU Executive Board (APSOU is the SOU faculty union)
  - 1994-95, President of APSOU, the SOU faculty union.
  - 2003-04, President of APSOU, the SOU faculty union.
  - 1991 contract Chief Negotiator
  - 1993 contract Chief Negotiator
  - 1989, 1995, 1997, 1999, 2003 contracts Negotiating Team
- 1990-present Math modeling team advisor for COMAP's national Mathematical Contest in Modeling. The 1990 team won top honors ("Outstanding Meritorious") and presented its solution at the 1991 AMS-MAA meeting in San Francisco, CA. SOU teams have

received award of “Meritorious” in 2001 - 2003 contests, placing them in the top 15% nationally.

1992-present Instrumental in facilitating the introduction of graphing calculators to SOU lower division curriculum, especially College Algebra and the Calculus sequence.

1990-present Numerous book reviews for various publishers.

1988-2000 Organized SOU Math Department’s annual Kieval Lectures.

1989, 1992, 1994-1998 Senator, Southern Oregon University’s Faculty Senate.

2003-present Senator and Senate Advisory Council  
2004-05 Senate Chair-Elect

2005-2006 Chair of Faculty Senate